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ARMY ENGINEER DISTRICT ST LOUIS MO

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AN INVENTORY OF RARE AND ENDANGERED PLANT SPECIES FOUND IN THE --ETC(U)

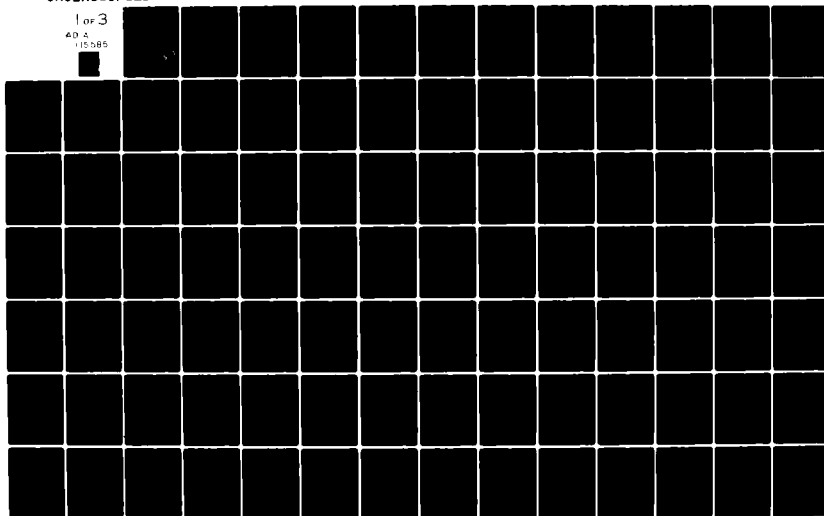
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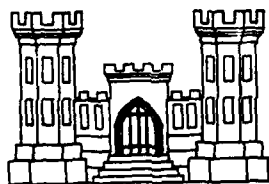
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AN INVENTORY
OF RARE AND ENDANGERED PLANT SPECIES
FOUND IN THE ST. LOUIS, MISSOURI,
CORPS OF ENGINEERS DISTRICT



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U. S. ARMY ENGINEER DISTRICT
ST. LOUIS, MISSOURI
JUNE 1976

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) > The purpose of this inventory is to identify those vascular plant species which are found in the St. Louis District and designated as rare, threatened, or endangered under the auspices of the Endangered Species Act of 1973 (PL 93-205) by the states of Illinois or Missouri and/or the Smithsonian Institution. The inventory will be used as a planning document for environmental inventory work associated with proposed water resources development projects being studied by the Corps of Engineers.		

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An Inventory of Rare and Endangered
Plant Species Found in the St. Louis,
Missouri, Corps of Engineers District

Purpose of Inventory

The purpose of this inventory is to identify those vascular plant species which are found in the St. Louis District and designated as rare, threatened, or endangered under the auspices of the Endangered Species Act of 1973 (Public Law 93-205) by the states of Illinois or Missouri and/or the Smithsonian Institution. The inventory will be used as a planning document for environmental inventory work associated with proposed water resource development projects being studied by the Corps of Engineers.

Each species of vascular plant listed in this report is classified according to Federal and State standards, as well as this investigator's personal observation based on twenty-seven years' study of the midwestern flora.

Federal

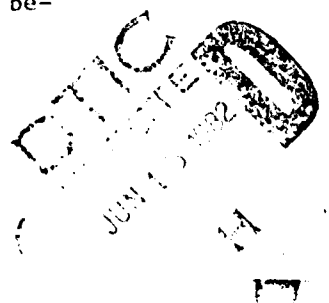
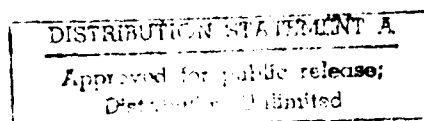
The Endangered Species Act of 1973 (Public Law 93-205, approved December 28, 1973) directed the Smithsonian Institution to prepare a list of endangered and threatened plant species, to review methods of adequately conserving these species, and to report the Institution's recommendations to the Congress.

The Federal Report (1975) includes the first national lists of endangered, threatened, recently extinct, and commercially exploited species of native vascular plants of the United States.

In determining endangered, threatened, and recently extinct, or possibly extinct, status, the authors of the Federal Report (1975) considered the entire range of the species. A species that is rare in one area or state is not included if it is common elsewhere in its range.

The following definitions were utilized in the Federal Report:

Endangered species: those species of plants in danger of extinction throughout all or a significant portion of their ranges. Existence may be endangered because of the destruction, drastic modification, or severe curtailment of habitat, or be-



cause of overexploitation, disease, predation, or even unknown reasons. Plant taxa from very limited areas, e.g., the type localities only, or from restricted fragile habitats usually are considered endangered.

Threatened species: those species of plants that are likely to become endangered within the foreseeable future throughout all or a significant portion of their ranges. This includes species categorized as rare, very rare, or depleted.

Only species indigenous to the United States are included. Species and well recognized subspecies and varieties are included, but the forms, races, apomicts, and hybrids are not.

In the Federal Report (1975), there are five endangered and sixteen threatened species listed for Illinois, and seven endangered and seventeen threatened species listed for Missouri. Of these, one endangered and eleven threatened species in Illinois occur within the boundaries of the St. Louis District. In the St. Louis District boundary in Missouri, there are three endangered and seven threatened species. These are summarized below:

Illinois

Isotria medeoloides (E)
Rhus trilobata var. arenaria (T)
Asclepias meadii (T)
Boltonia asteroides var. decurrens (T)
Apios priceana (T)
Synandra hispidula (T)
Platanthera flava (T)
Platanthera leucophaea (T)
Platanthera peramoena (T)
Muhlenbergia curtisetosa (T)
Asplenium kentuckiense (T)
Dodecatheon frenchii (T)

Missouri

Draba aprica (E)
Isotria medeoloides (E)
Heuchera missouriensis (E)
Asclepias meadii (T)
Boltonia asteroides var. decurrens (T)
Cyripedium candidum (T)
Platanthera flava (T)
Platanthera leucophaea (T)
Platanthera peramoena (T)
Rubus missouriensis (T)

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Missouri

In 1972, the Missouri State Legislature passed an act (Section 252.240, RSMo.) dealing with endangered species of animals and charged the Department of Conservation with establishing a list of animal species considered rare or endangered.

An outgrowth of this has been the development of a list which includes both higher and lower forms in the animal and plant kingdoms. The list (1974) is a joint effort of the Missouri Department of Conservation and the State Office of the U.S.D.A. Soil Conservation Service. This list contains the rare and endangered species of native and naturalized plants and animals in Missouri, with annotations describing the status, distribution, and the broad ecological community in which each species is normally found.

The following definitions were used in compiling the Missouri list:

Endangered. An endangered species or subspecies is one whose prospects for survival within the state are in immediate jeopardy. Its peril may result from one or many causes--loss of habitat or change in habitat, overexploitation, predation, competition, disease. An endangered species must have help or extirpation will probably follow.

Rare. A rare species or subspecies is one that, although not presently threatened with extirpation, is in such small numbers within the state that it could easily become endangered if its environment worsens. Close watch of its status is necessary.

Status Undetermined. A status undetermined species or subspecies is one that has been suggested by competent authority as possibly rare or endangered, but about which there is not enough information to determine its status. More information is needed, but it should be considered rare or endangered until its definite status is established.

Extirpated. An extirpated species or subspecies is one that formerly occurred in Missouri, but at this time is not known to exist within the state. Extirpated species still occur elsewhere and could become established in Missouri if conditions become favorable.

Illinois

Although Illinois has long been at the front in efforts to preserve natural areas through its Nature Preserves Commission, it has not finalized a list of rare and endangered species. Such a list, however, is being prepared by the Nature Preserves Commission.

Inventory of Rare and Endangered Plants,
St. Louis District

The list of rare and endangered plants which comprises the body of this report has been prepared by using existing published literature on the floras of Illinois and Missouri and through the investigator's personal experience. The references used in preparing this list are appended.

For each species is listed those counties in the St. Louis District where the species is rare or endangered. If a species is rare in one state but not in another, only the counties in the state where it is rare are listed at the heading of each page.

Following this listing of counties are the scientific name of the species and the common name. The scientific name follows that used by Mohlenbrock (1975) unless otherwise indicated in the Notes. Where the nomenclature used by Steyermark (1963) differs, it is listed under Notes. The sequence of species also follows Mohlenbrock (1975).

The classification of the species follows the common name. Federal classification, if there is one, is given first, in accordance with the Federal Report (1975).

The Illinois status, if rare, is given next. Since there is no official Illinois list, the classification is based upon the investigator's observations. If a species is known but from a single locality in Illinois, it is considered very rare. If it is known from two or three localities, it is considered rare. If it occurs in four or more localities, it is not listed.

The Missouri status follows that given in the booklet Rare and Endangered Species of Missouri (1974). In a very few cases, the investigator has added species to the Missouri list if those species occur three or fewer times in the state.

A map is given showing the county distribution of each species in the bi-state region. Large dots indicate counties in the St. Louis District.

Following the map is a brief description of the species, a notation of habitat, and a statement giving the overall range of the species.

The section on notes gives specific locality and collection date, nomenclatural differences, and other data as determined necessary by the investigator.

This inventory of rare and endangered vascular plants in the St. Louis District will be reviewed and updated annually.

The list of counties which occur entirely or substantially within the St. Louis District follows:

Illinois

Adams	Macon
Alexander	Macoupin
Bond	Madison
Brown	Marion
Calhoun	Monroe
Cass	Montgomery
Champaign	Morgan
Christian	Moultrie
Clinton	Perry
Coles	Piatt
Douglas	Pike
Effingham	Pulaski
Fayette	Randolph
Franklin	Sangamon
Greene	Scott
Hamilton	Shelby
Jackson	St. Clair
Jefferson	Union
Jersey	Washington
Johnson	Williamson

Missouri

Adair	Monroe
Audrain	Montgomery
Bollinger	Phelps
Boone	Perry
Callaway	Pike

Cape Girardeau	Kalls
Crawford	Randolph
Dent	Scott
Franklin	Shelby
Gasconade	Ste. Genevieve
Iron	St. Charles
Jefferson	St. Francois
Lincoln	St. Louis
Macon	Warren
Madison	Washington
Maries	Wayne
Mississippi	

CALLAWAY, JEFFERSON, LINCOLN, MADISON, MONTGOMERY, PIKE,
ST. CHARLES, ST. LOUIS, STE. GENEVIEVE, WARREN (CO).

Lycopodium lucidulum Michx.

Shining Clubmoss

Classification: Missouri: Rare.



Description: Upright, evergreen. Leaves oblanceolate,
7-14 mm long. Spores borne in axils of leaves.

Habitat: Shaded sandstone ledges.

Range: Newfoundland to Ontario, south to Missouri and
South Carolina.

Notes: This plant is known from eight counties scattered
throughout Illinois.

ST. GENEVIEVE (MO).

Lycopodium obscurum L. var. dendroideum (Michx.) D.C. Eat.

Round-branched Ground Pine

Classification: Missouri: Endangered.



Description: Creeping evergreen with ascending branches.
Leaves linear-lanceolate, 4-6 mm long. Cone solitary, sessile, to 5.5 cm long.

Habitat: Sandstone ledges.

Range: Labrador to Alaska, south to Montana, Illinois, and Georgia.

Notes: Only Missouri location is along upper reaches of River Aux Vases, $3\frac{1}{2}$ -4 miles northwest of Avon, August 30, 1951, J. A. Steyermark 72506.

There is a single collection in Illinois from Ogle County.

Mohlenbrock (1975) calls this species Lycopodium dendroideum Michx.

MADISON, PERRY, ST. FRANCOIS, STE. GENEVIEVE (MO).

Lycopodium porophilum Lloyd & Underw.

Fir Clubmoss

Classification: Missouri: Rare.



Description: Upright, evergreen. Leaves linear-lanceolate, 4-8 mm long. Spores borne in axils of leaves.

Habitat: Shaded sandstone ledges.

Range: Ontario to Minnesota, south to Missouri, Alabama, and South Carolina.

Notes: This species is known from three counties in northern Illinois and three counties in extreme southern Illinois.

Steiermark (1963) calls this plant Lycopodium selago L. var. patens (Beauv.) Desv.

STE. GENEVIEVE (MO).

Lycopodium tristachyum Pursh

Ground Cedar

Classification: Missouri: Status Unknown.



Description: Creeping evergreen with ascending branches. Cones several, terminal.

Habitat: Sandstone bluffs.

Range: Newfoundland to Minnesota, south of Missouri, Tennessee, and Georgia.

Notes: The only known locality for this species in Missouri is from Pickle Springs, where it has been known for seventy-five years.

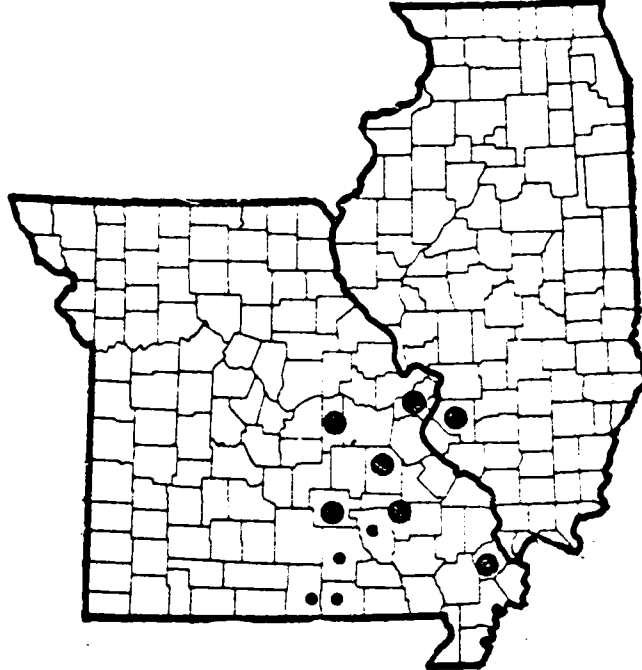
This species is unknown from Illinois.

ST. CLAIR (ILL).

Isoetes engelmannii A. Br.

Engelmann's Quillwort

Classification: Illinois: Ranked very rare and probably extinct by this investigator.



Description: Leaves 15-60 cm long. Megaspores reticulate with narrow ridges.

Habitat: Shallow water of ponds and ditches.

Range: New Hampshire to Missouri, south to Alabama and Florida.

Notes: The only Illinois collection was made by H. Eggert about 100 years ago. It is probably extinct.

In Missouri, this species occurs in ten counties in the southeastern quarter of the state.

JOHNSON (ILL).

Trichomanes boschianum Sturm

Filmy Fern

Classification: Illinois: Ranked rare by this investigator.



Description: Leaves thin and delicate, bipinnatifid. Sori tubular, borne along the margins of the lobes of the leaves.

Habitat: Beneath moist, overhanging sandstone cliffs.

Range: Ohio to Illinois, south to Alabama and Georgia; Arkansas.

Notes: There are nine locations for this fern in Pope County, two in Johnson County, and one in Hardin County, Illinois.

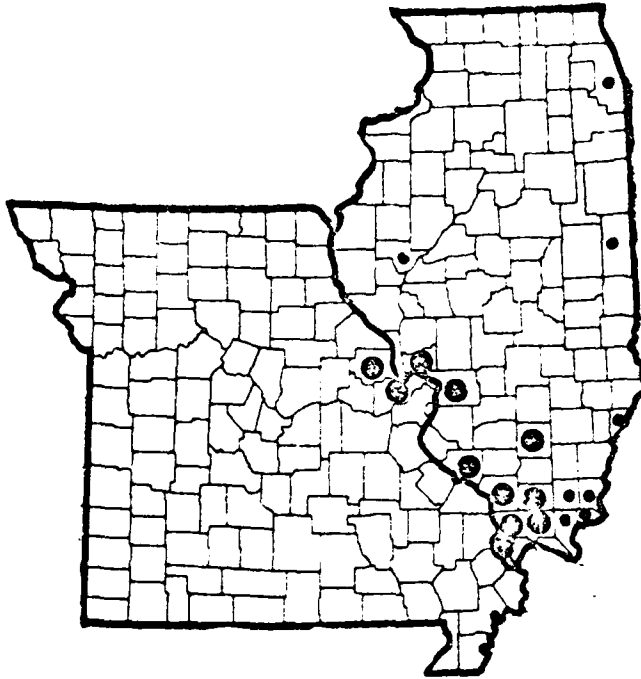
This fern is not known from Missouri.

LINCOLN, ST. CHARLES (MO).

Ophioglossum vulgatum L. var. pycnostichum Fern.

Adder's-tongue Fern

Classification: Missouri: Rare.



Description: Leaf simple, entire, ovate, 3-8 cm long, 1-2 cm broad. Fertile spike 1-2 cm long, borne on a stalk up to 3 cm long.

Habitat: Moist woods.

Range: New Jersey across Ohio and Indiana to Missouri, south to Tennessee and South Carolina.

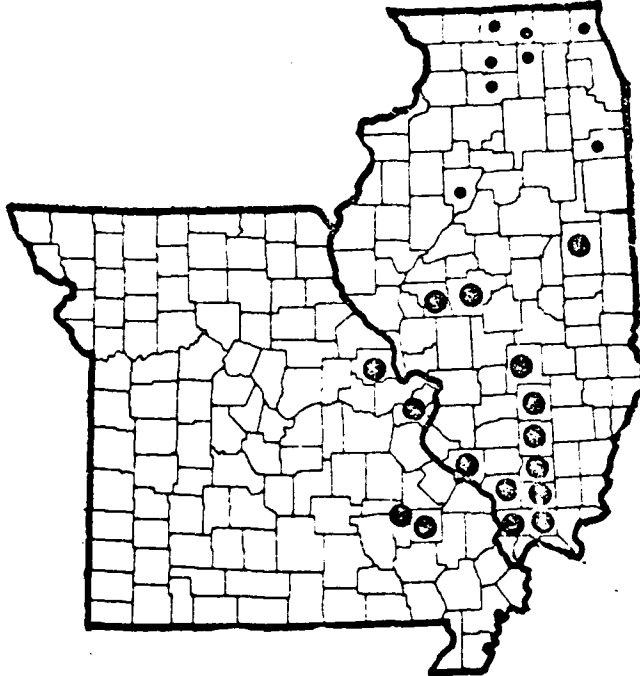
Notes: In Illinois, this is the more common of the two varieties. It is known from a few counties in central Illinois and several counties from southern Illinois.

IRON, LINCOLN, MADISON, ST. LOUIS (MO).

Botrychium dissectum Spreng.

Cut-leaved Grape Fern

Classification: Missouri: Rare.



Description: Evergreen. Leaves ternately compound, 8-14 cm long, 8-15 cm broad. Fertile spike on a stalk to 20 cm long. Sporangia spherical.

Habitat: Rich wooded ravines.

Range: Nova Scotia to Ontario and Minnesota, south to Missouri and Florida.

Notes: This species is known from 23 counties in Illinois and thus is not considered rare.

JACKSON (ILL).

Botrychium biternatum (Sav.) Underw.

Grape Fern

Classification: Illinois: Considered very rare by this investigator.

Missouri: Not listed by state, but considered very rare by this investigator.



Description: Evergreen. Leaves ternately compound, to 13 cm long, to 17 cm broad. Fertile spike on a stalk up to 15 cm long. Sporangia circular.

Habitat: Open woods.

Range: Maryland to Missouri, south to Texas and Florida.

Notes: This fern is known in Missouri from Butler and Dunklin counties.

Steiermark (1963) calls it Botrychium dissectum var. tenuifolium (Underw.) Farw.

Only Illinois collection is from Little Grand Canyon, nine miles southwest of Murphysboro, August 10, 1963, R. H. Mohlenbrock 15150.

JOHNSON (ILL).

MADISON, ST. FRANCIS, STE. GENEVIEVE (MO).

Dennstaedtia punctilobula (Michx.) Moore

Hay-scented Fern

Classification: Illinois: Considered rare by this investigator.



Description: Leaves deciduous, bipinnate-pinnatifid, glandular hairy on the lower surface. Sori marginal, terminating the veins.

Habitat: Shaded sandstone cliffs.

Range: Nova Scotia to Minnesota, south to Arkansas and Georgia.

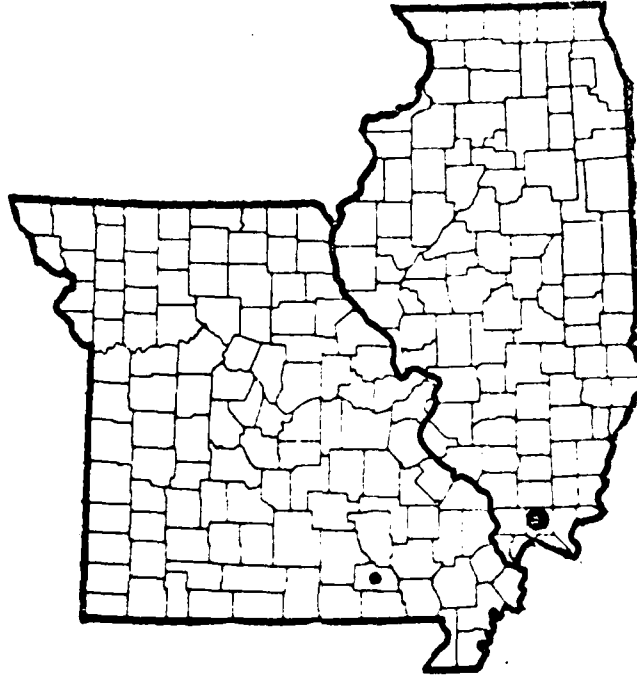
Notes: This species may be threatened by collectors because of its extreme beauty.

JOHNSON (ILL).

Dryopteris celsa (Wm. Palmer) Small

Log Fern

Classification: Illinois: Considered very rare by the investigator.



Description: Leaves pinnate-pinnatifid to bipinnate, to nearly 1 m long. Sori round, borne on the back of the leaf segment near the midvein.

Habitat: Wooded swamps.

Range: Massachusetts to Illinois, south to Louisiana and Florida.

Notes: This extremely rare fern was first found in Illinois at Heron Pond in 1970.

A Missouri collection is known from Carter County but was reported by Steyermark (1963) erroneously as D. clintoniana var. australis.

ST. CLAIR (ILL).

Dryopteris X clintoniana (D.C. Eaton) Dowell

Clinton's Woodfern

Classification: Illinois: Considered probably extinct by the investigator.



Description: Leaves pinnate-pinnatifid, to 90 cm long, with 10-15 pairs of pinnae. Sori round, borne on the back of the leaf segments away from the margin.

Habitat: Moist, rich woodlands.

Range: Quebec to Ontario, south to Missouri and Georgia.

Notes: The only Illinois collection of this fern was made near Belleville, August 7, 1870, by an unknown collector.

This fern is reputed to be a hybrid between D. cristata and D. goldiana.

MADISON, WARREN (MO).

Dryopteris goldiana (Hook.) Gray

Goldie's Fern

Classification: Missouri: Rare.



Description: Leaves pinnate-pinnatifid to bipinnate, to nearly 1 m long. Petiole with large, blackish scales at the base. Sori round, borne on the back of the leaf segment near the midvein.

Habitat: Moist, shaded woodlands.

Range: New Brunswick to Ontario, south to Iowa, Tennessee, and North Carolina.

Notes: This fern is known from ten Illinois counties where it is uncommon.

The Missouri collections were made in a ravine tributary to Dry Fork of Charrette Creek, 6 miles south of Warrenton (Warren Co.), J. A. Steyermark 73069 and from a spring-fed branch $1\frac{1}{4}$ miles east of Marquand (Madison Co.), J. A. Steyermark 77555.

ST. CLAIR (ILL.).

Gymnocarpium dryopteris (L.) Newm.

Oak Fern

Classification: Illinois: Considered very rare by
the investigator.



Description: Leaves deltoid, ternate. Sori small, borne
on the lower surface of the pinnae near the margin.

Habitat: Deep, moist woodlands.

Range: Greenland to Alaska, south to Oregon, Arizona,
Missouri, and Virginia.

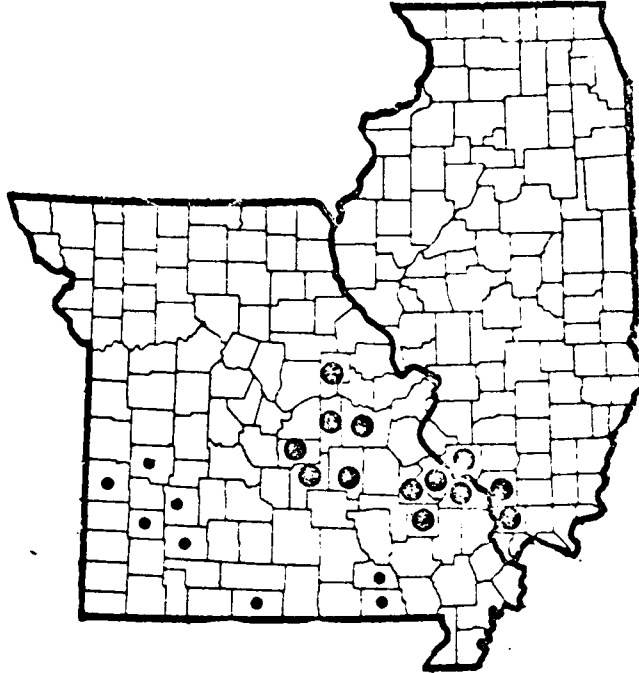
Notes: This fern is unknown from Missouri and has been
found only twice in Illinois. The St. Clair County
station is very likely extinct since it hasn't been
seen since 1885.

JACKSON, RANDOLPH, UNION (ILL).

Asplenium bradleyi D. C. Eaton

Bradley's Spleenwort

Classification: Illinois: Considered rare by this investigator.



Description: Evergreen fern. Leaves bipinnate to bipinnate-pinnatifid, to 30 cm long. Petiole brown throughout. Rachis brown below, green above.

Habitat: Crevices of sandstone cliffs.

Range: New York to Oklahoma, then to Georgia.

Notes: This fern is found in a number of localities in the Missouri Ozarks.

The first Illinois collection was made in Randolph County along Piney Creek in 1954 by R. H. Mohlenbrock.

UNION, WILLIAMSON (ILL).

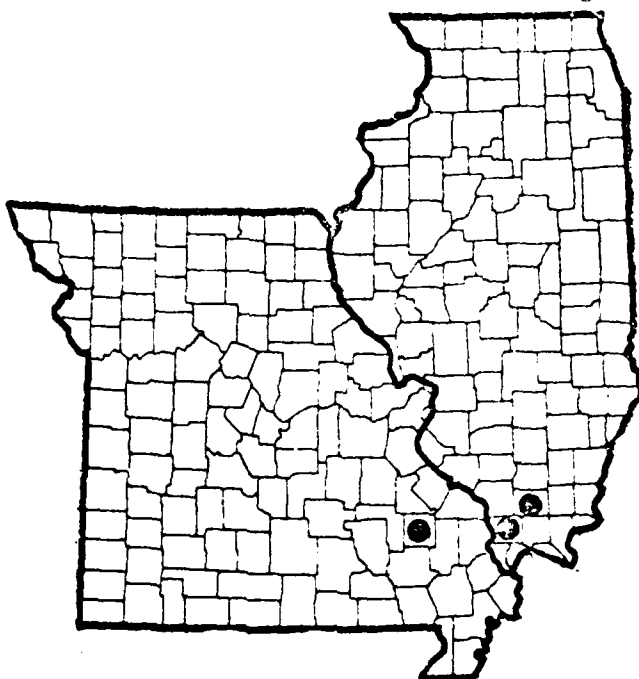
MADISON (MO).

Asplenium X gravesii Maxon

Graves' Spleenwort

Classification: Illinois: Rated rare by this investigator.

Missouri: Not listed in 1974, but rated probably extinct by this investigator.



Description: Evergreen fern. Leaves once-pinnate below, pinnatifid above. Petiole brown throughout. Rachis green.

Habitat: Crevices of sandstone cliffs.

Range: Pennsylvania, Kentucky, Illinois, Missouri.

Notes: This is a hybrid between A. pinnatifidum and A. bradleyi.

The first Illinois collection was made in Union County at Panther's Den by R. R. MacMahon in 1960.

The only Missouri collection was made near Mine LaMotte on November 10, 1898, by Colton Russell. It is seemingly extinct in Missouri.

UNION (ILL).

Asplenium X kentuckiense McCoy

Kentucky Spleenwort

Classification: Federal: Threatened.

Illinois: Considered very rare by
this investigator.



Description: Evergreen fern. Leaves pinnate about one-half their length, pinnatifid above, to 20 cm long. Petiole brown throughout. Rachis brown below, green above.

Habitat: Crevices of sandstone cliffs.

Range: Ohio; Kentucky; Illinois; Arkansas.

Notes: This fern is unknown from Missouri.

A collection by F. S. Earle from Union County was made during the 1880's. The fern was rediscovered at the Pine Hills on October 9, 1965, by J. Ebinger 6075.

This fern is a hybrid between A. pinnatifidum and A. platyneuron.

MONTGOMERY (MO).

Asplenium montanum Willd.

Mountain Spleenwort

Classification: Missouri: Rare.



Description: Delicate, evergreen fern. Leaves pinnately divided. Rachis and stipe green, except for the very base of the stipe.

Habitat: Wooded ravine.

Range: Connecticut to Ohio and Missouri, south to Arkansas and Georgia.

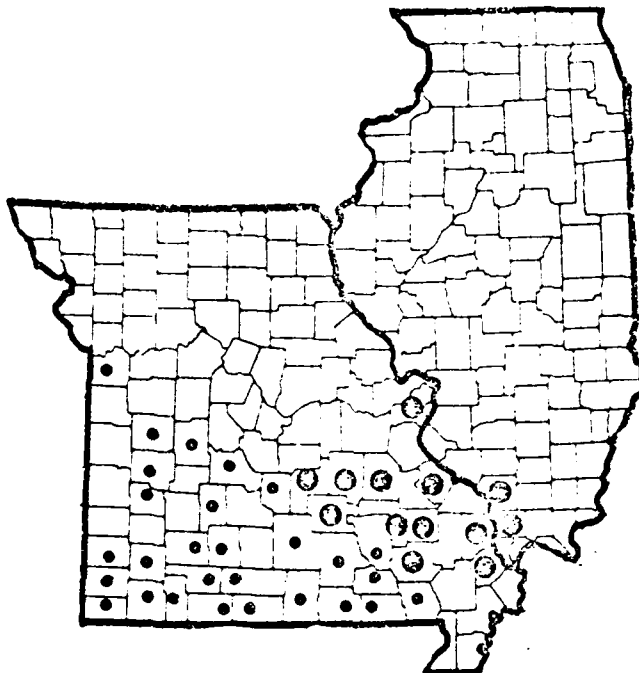
Notes: This is a most unusual species for the midland section of the United States; its general distribution is eastward.

JACKSON, UNION (ILL).

Asplenium resiliens Kunze

Black Spleenwort

Classification: Illinois: Considered rare by this investigator.



Description: Evergreen fern. Leaves once-pinnate, to 30 cm long. Leaflets auriculate at base. Petiole and rachis dark brown.

Habitat: Crevices of limestone cliffs (in Illinois).

Range: Pennsylvania to Kansas, south to Arizona and Florida; Central America; West Indies; South America.

Notes: This fern is frequent in the Missouri Ozarks because of the abundance of limestone and dolomite on which it grows.

The Jackson County station in Illinois apparently no longer exists.

JACKSON (ILL).

Asplenium X trudellii Wherry

Trudell's Spleenwort

Classification: Illinois: Considered probably extinct by this investigator.



Description: Evergreen fern. Leaves once-pinnate below, pinnatifid above. Petiole brown at base, green above. Rachis green.

Habitat: Crevices of sandstone cliffs.

Range: New Jersey to Illinois, south to Alabama.

Notes: This fern is unknown from Missouri.

The only Illinois collection was made in 1871 by G. H. French 3719 from Fern Rocks (now Giant City State Park).

This fern is a hybrid between Asplenium montanum and A. pinnatifidum.

CHAMPAIGN (ILL).

Cystopteris X tennesseensis Shaver

Tennessee Fragile Fern

Classification: Illinois: Considered very rare by
the investigator.



Description: Leaves bi- to tripinnatifid, to 31 cm long,
with scattered glandular hairs. Indusium more or
less glandular.

Habitat: Moist woodlands.

Range: Maryland to Kansas, south to Oklahoma and North
Carolina.

Notes: This fern is a hybrid between C. fragilis var.
protrusa and C. bulbifera.

It is unreported from Missouri.

ST. CLAIR (ILL).

Azolla caroliniana Willd.

Mosquito Fern

Classification: Illinois: Considered very rare by the investigator.



Description: Plants 5-10 mm in diameter. Glochidia without crosswalls.

Habitat: Standing water.

Range: Massachusetts and New York to Louisiana; Cuba; Puerto Rico; Jamaica; Brazil (?).

Notes: This fern is distinguished from the more common Azolla mexicana only by the microscopic characters of the glochidia.

The lone Illinois collection was made in a sinkhole pond, 3 miles east of Dupu, October 1, 1939, A. J. Seibert 1134.

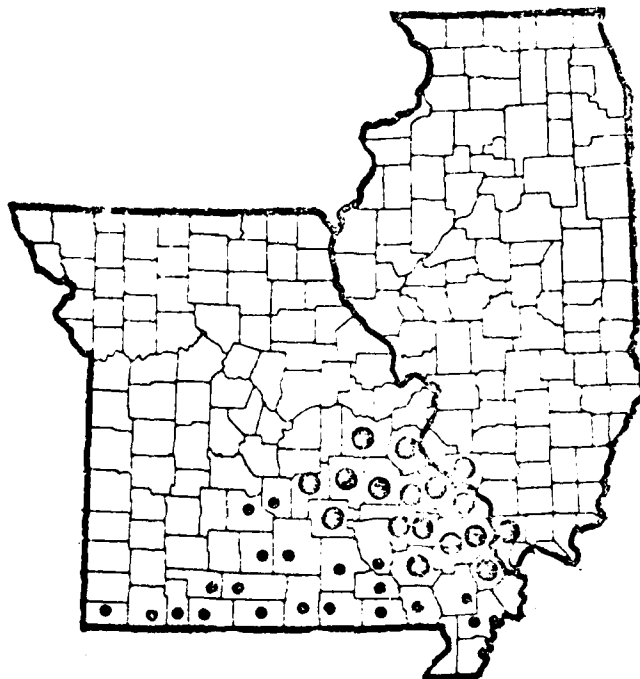
This fern is unknown from Missouri.

RANDOLPH, UNION (ILL).

Pinus echinata Mill.

Shortleaf Pine; Yellow Pine

Classification: Illinois: Considered rare by this investigator.



Description: Tree to 50 feet tall. Needles in clusters of 2's and 3's, 7-15 cm long.

Habitat: Acid soil, sometimes on chert.

Range: New York across Ohio to Oklahoma, south to Texas and Florida.

Notes: This species has been known in Illinois from the Pine Hills of Union County for about a century and from along Piney Creek in Randolph County for about a half century.

This pine is common throughout the Missouri Ozarks.

Typha glauca Godr.

Blue Cat-tail

Classification: Missouri: Rare.



Description: Pistillate spike separated a short distance from the staminate spike. Leaves 7-15 mm wide.

Habitat: Edge of lake.

Range: Maine to South Dakota, south to Missouri, Alabama, and North Carolina; Ontario; California; Guatemala.

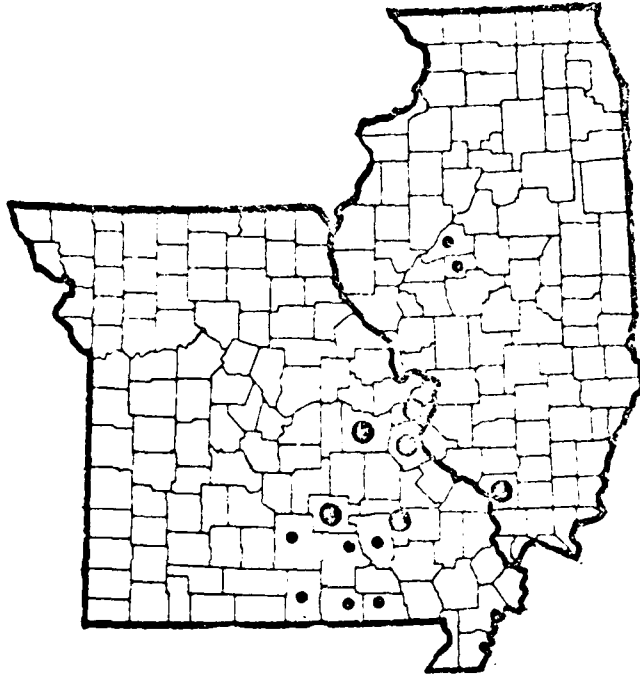
Notes: The Boone County station is on the border of Moore's Lake, just north of Highway 40, Columbia, where it was collected July 31, 1958, by J. A. Steyermark 86146 and Dunn 12945. This species is also known in Missouri from Platte County.
It is not known from Illinois.

JACKSON (ILL.).

Potamogeton pulcher Tuckerm.

Pondweed

Classification: Illinois: Considered rare by this investigator.



Description: Stems black-dotted. Leaves of three types. Spikes continuous, cylindrical, up to 3.5 cm long, about 1 cm thick.

Habitat: Shallow water.

Range: Nova Scotia to Minnesota, south to Texas, Ohio, and Maryland; Florida.

Notes: This species was collected in Jackson County in 1949 at Campbell Lake, near Elkhville, by W. Bailey and J. Swayne 3109. It is also known from Mason and Menard counties.

In Missouri, this species is characteristic of sinkhole ponds in the Ozark upland.

PERRY (MO).

Potamogeton pusillus L.

Pondweed

Classification: Missouri: Rare.



Description: Stems very slender, compressed. Leaves all alike, submersed, linear, up to 21 mm long, up to 2 mm broad. Spikes interrupted, subcylindric.

Habitat: Ponds, lakes, streams.

Range: Quebec to British Columbia, south to Texas and Alabama; Mexico; Europe.

Notes: Although this species is officially listed as rare in Missouri, it is known from nine counties, most of them in the southwestern corner of the state.

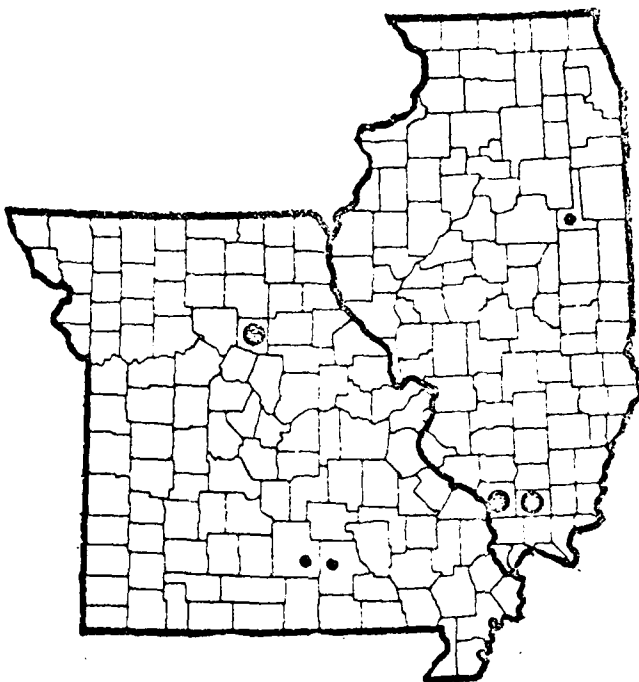
In Illinois, this species is scattered throughout the upper 3/4's of the state.

JACKSON, WILLIAMSON (ILL).

Naias gracillima (A. Br.) Magnus

Naiad

Classification: Illinois: Considered rare by
this investigator.



Description: Stems very slender, highly branched.
Leaves filiform, serrulate. Achene with rec-
tangular margins.

Habitat: Pools; ponds; lakes.

Range: Maine to Minnesota, south to Missouri and
Virginia.

Notes: In addition to Jackson and Williamson coun-
ties in Illinois, this species is known from
Ford County.

This species is known from three Missouri
counties.

Ditch Grass

Classification: Missouri: Rare.



Description: Submerged aquatic with very slender, branched stems. Leaves alternate, capillary. Flowers perfect, two per spadix.

Habitat: Saline waters.

Range: Newfoundland to British Columbia, south to California; Oklahoma and Florida; Mexico; Central America; West Indies; South America; Europe; Asia; Africa.

Notes: The Ralls County specimen was collected from a lake formed by a salt-sulfur spring at Spalding, September 3, 1937, J. A. Steyermark 25691. This variety is also known in Missouri from Henry County.

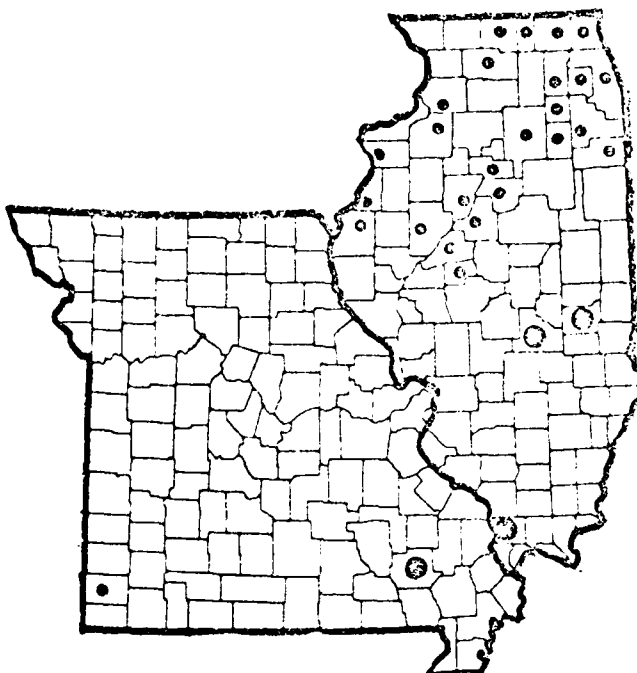
In Illinois, this plant has been found in Henry, Lake, and Vermilion counties.

WAYNE (MO).

Elodea canadensis Rich.

Elodea

Classification: Missouri: Considered rare by this investigator.



Description: Plants either pistillate or staminate.
 Leaves of pistillate plants broadly lanceolate, to 13 mm long, to 4 mm broad. Sepals 3. Petals 3.
 Leaves of staminate plants linear to linear-lanceolate.
 Stamens 9.

Habitat: Quiet water.

Range: Quebec to British Columbia, south to California, Oklahoma, and Alabama.

Notes: The Wayne County collection was from Mill Spring, August 26, 1899, W. Trelease. This plant has also been collected in Newton County in 1893.

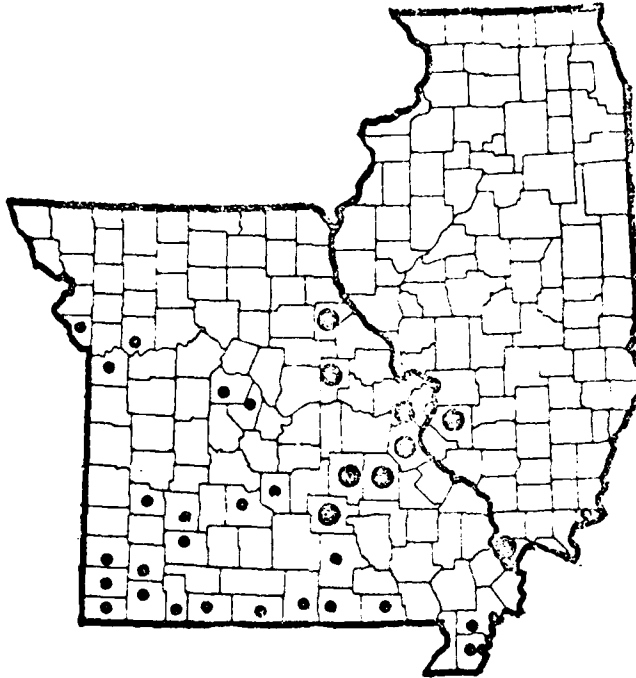
There are many Illinois collections for this species.

ALEXANDER, ST. CLAIR (ILL).

Heteranthera limosa (Sw.) Willd.

Mud Plantain

Classification: Illinois: Considered rare by this investigator.



Description: Perennial with rhizomes. Leaves lanceolate to ovate, to 5 cm long. Flower solitary, blue marked with one or more white spots, borne from a spathe.

Habitat: Muddy shores; shallow water.

Range: Minnesota to Colorado, south to New Mexico and Florida; Mexico; West Indies; Central America; South America.

Notes: In addition to the counties listed above from Illinois, this species is known from Hardin County. This species is known from several counties throughout Missouri.

MISSISSIPPI (MO).

Limnobium spongia (Bosc) Steud.

Spongeplant; American Frogbit

Classification: Missouri: Rare.



Description: Aquatic. Leaves floating, heart-shaped, with spongy air cells on the lower surface. Flowers unisexual. Ovary inferior.

Habitat: Swamps.

Range: New York to Florida to Texas; Illinois; Missouri; Kentucky.

Notes: In addition to Mississippi County, this species is also known in Missouri from Dunklin and Pemiscot counties.

There are five counties in Illinois where this species has been found.

CASS, ST. CLAIR (ILL).
ST. LOUIS (MO).

Echinodorus tenellus (Mart.) Buch. var. parvulus (Engelm.)
Fassett

Small Burhead

Classification: Illinois: Considered rare by the
investigator.

Missouri: Rare (extinct in St. Louis
Co.).



Description: Perennial. Leaves basal, the blade linear to lanceolate, to 3 cm long. Flowering scape to 10 cm long, bearing a single whorl of 2-8 flowers. Sepals 3, green. Petals 3, white, 1-3 mm long.

Habitat: Wet ditches; sinkhole ponds.

Range: Massachusetts to Missouri, south to Texas and Florida; Cuba; Mexico.

Notes: This plant was originally found in Missouri near St. Louis by G. Engelmann. These stations no longer exist. There is a specimen also known from Howell Co. (Missouri).

In Illinois, this plant has not been found in nearly a century.

ALEXANDER, JOHNSON, UNION (ILL).

Spirodela oligorhiza (Kurtz) Hegelm.

Duckweed

Classification: Illinois: Considered rare by
this investigator.



Description: Plants ovate to reniform, asymmetrical,
obscurely 3-nerved.

Habitat: Standing water.

Range: Scattered in North America; Asia.

Notes: The first Illinois collection was from Horse-
shoe Lake in Alexander County.

There is one Missouri collection from Jackson
County.

MADISON (ILL).

Lemna minima Phil.

Duckweed

Classification: Illinois: Considered rare by this investigator.



Description: Plants obovate to elliptical, symmetrical, 1.5-1.7 mm long, 1.0-1.2 mm wide, obscurely 1-nerved or apparently nerveless.

Habitat: Standing water.

Range: Minnesota to California, south to Texas and Florida; Mexico; Central America; South America.

Notes: The Madison County collection was made by R. A. Evers. In addition, this species is known in Illinois from Carroll and Will counties.

This species is rare in Missouri, where it is known from Oregon and Howell counties.

BOLLINGER, PHELPS (MO).

Wolffia punctata Griseb.

Water Meal

Classification: Missouri: Rare.



Description: Plants narrowly ovoid to ellipsoid, 0.6-1.0 mm long, 0.3-0.6 mm wide, nerveless.

Habitat: Standing water.

Range: Canada; eastern United States; Mexico; West Indies.

Notes: This rare species has been collected in Missouri only from Yancy Mills Spring in Phelps County and from Bollinger County.

This species is uncommon in Illinois, where it is known only from five counties, including Sangamon in the St. Louis District.

JACKSON, ST. CLAIR (ILL).

Poa alsodes Gray

Woodland Bluegrass

Classification: Illinois: Considered rare by this investigator.



Description: Tufted perennial. Leaves 2-5 mm wide. Inflorescence 10-25 cm long, ascending. Spikelets 3-6 mm long, 2- to 3-flowered. Lemmas obscurely 5-nerved.

Habitat: Moist woodlands.

Range: Ontario to Minnesota, south to Illinois and Virginia.

Notes: H. Eggert collected this species in St. Clair County about 100 years ago. R. H. Mohlenbrock found it at Giant City State Park (Jackson Co.) in 1953.

This species is unknown from Missouri.

UNION (ILL).

Poa angustifolia L.

Narrow-leaved Bluegrass

Classification: Illinois: Considered rare by this investigator.



Description: Rhizomatous perennial. Stems terete, less than 1 m tall. Leaves 1-2 mm broad. Inflorescence up to 20 cm long, spreading to ascending. Spikelets 3-6 mm long, 3- to 5-flowered.

Habitat: Woods and clearings.

Range: Throughout the northern half of North America, south to North Carolina, southern Illinois, Nebraska, and California.

Notes: The single collection of this species from Illinois is from the Pine Hills, June 20, 1968, S. Poellot 3445.

UNION (ILL).

Glyceria arkansana Fern.

Southern Manna Grass

Classification: Illinois: Very rare.



Description: Perennial. Culms to nearly 2 m tall. Leaves 10-18 mm broad. Inflorescence 40-70 cm long, ascending. Spikelets 15-20 mm long, 10- to 15-flowered.

Habitat: Shallow water of swamps.

Range: Virginia to Illinois, south to Arkansas and Louisiana; New York (?).

Notes: The only known locality for this grass in Illinois is the LaRue Swamp where it was first collected on May 19, 1940, by B. Bauer 2608.

This species is known from five counties in southeastern Missouri, including Wayne.

Steiermark calls this plant Glyceria septentrionalis Hitchc. var. arkansana (Fern.) Steiermark & Kucera.

UNION (ILL).

PHELPS, SCOTT (MO).

Puccinellia pallida (Torr.) Clausen

Pale Manna Grass

Classification: Illinois: Considered rare by this investigator.

Missouri: Rare.



Description: Semi-aquatic perennial. Stems to 1 m tall. Leaves 3-8 mm broad. Spikelets 4-7 mm long, 4- to 8-flowered.

Habitat: Shallow, standing water, usually in swamps.

Range: Nova Scotia to Ontario, south to Missouri and Virginia.

Notes: The only location in Illinois is in the LaRue Swamp where it was first collected by B. Bauer in 1941.

In Missouri, this species is known from a swamp in Scott County and from cold water of Yancy Mill Spring, Phelps County, November 28, 1936, J. A. Steyermark 20914.

This grass is also known from a swamp in Butler County.

Steyermark (1963) calls this plant Glyceria pallida (Torr.) Trin.

BOONE (MO).

Tridens oklahomensis (Feath.) Feath.

Oklahoma Redtop

Classification: Missouri: Considered very rare by
this investigator.



Description: Perennial. Inflorescence deep purple.
Spikelets 6-8 mm long, 4 mm wide, 7- to 9-
flowered.

Habitat: Moist soil.

Range: Oklahoma; Missouri.

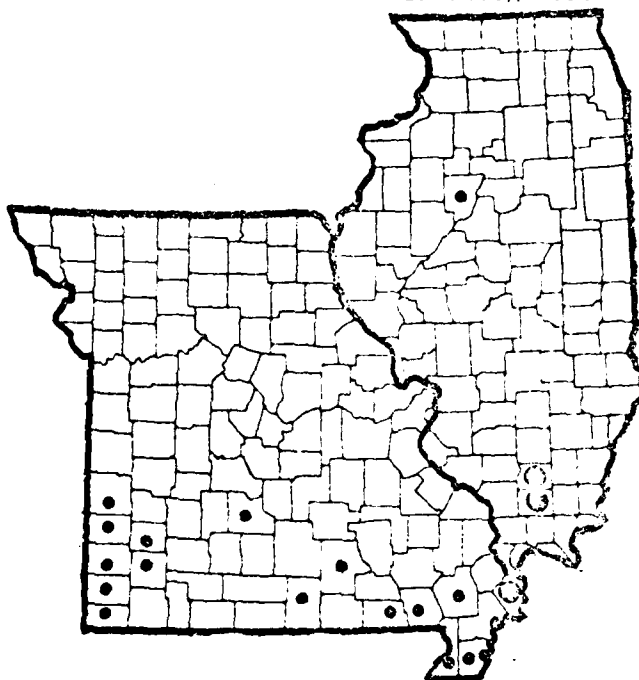
Notes: The only Missouri collection was by C. Kucera
in September, 1955, from T48N, R13W, section 3.
This grass is unknown from Illinois.

FRANKLIN, WILLIAMSON (ILL).

Tridens strictus (Nutt.) Nash

Tridens

Classification: Illinois: Considered rare by this investigator.



Description: Tufted perennial to 1.5 m tall. Leaves to 10 mm broad, glabrous. Inflorescence contracted, spike-like, 10-30 cm long. Spikelets 4-6 mm long, 4- to 10-flowered.

Habitat: Waste ground and fields.

Range: Tennessee to Kansas, south to Texas and Alabama.

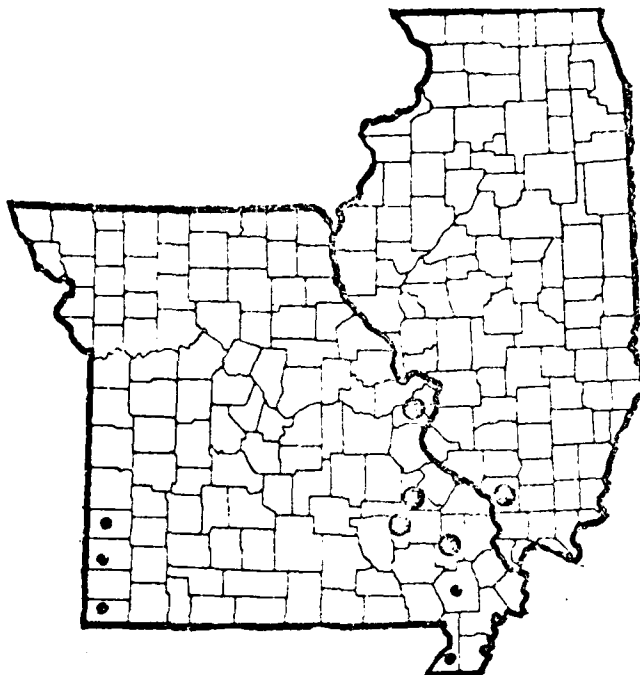
Notes: This grass is scattered throughout the southern half of Missouri.

JACKSON (ILL).

Digitaria villosa (Walt.) Pers.

Hairy Finger Grass

Classification: Illinois: Considered rare by this investigator.



Description: Annual. Leaves 3-6 mm broad, softly pilose. Racemes 2-6, over 10 cm long. Spikelets paired or in 3's, 2.0-2.5 mm long.

Habitat: Sandy soil.

Range: Virginia to Kansas south to Texas and Florida.

Notes: The single Illinois collection was made at Giant City State Park, July 31, 1964, by R. H. Mohlenbrock 13717.

There are several records for this grass from southern Missouri.

Steiermark (1963) calls this species Digitaria filiformis (L.) Koel. var. villosa (Walt.) Fern.

JACKSON, UNION (ILL).

Paspalum bushii Nash

Bush's Beadgrass

Classification: Illinois: Considered rare by this investigator.



Description: Tufted perennial. Leaves to 15 mm broad, velutinous on both surfaces. Racemes 2-3, slender, arching. Spikelets pubescent.

Habitat: Fields; along edge of woods.

Range: Illinois to Nebraska, south to Texas.

Notes: The Illinois locations for this grass are in Jackson and Union counties.

There are eight counties in Missouri for this grass, with four of them (Jefferson, Scott, St. Charles, and St. Louis) in the St. Louis District.

PERRY, PULASKI, ST. CLAIR (ILL).

Paspalum dissectum (L.) L.

Beadgrass

Classification: Illinois: Considered very rare by the investigator and possibly extinct.



Description: Creeping, subaquatic perennial. Leaves 4-5 mm wide. Racemes 1-5, 2-3 cm long. Rachis 2-3 mm wide, folded over and clasping the spikelets.

Habitat: Moist soil; edges of shallow swamps.

Range: New Jersey to Missouri, south to Texas and Florida.

Notes: The first Illinois collection was made by F. Brendel from St. Clair County in 1850. There have been no Illinois collections since 1893.

In Missouri, this species is also rare where it has been found in five southern counties, none of which is in the St. Louis District.

PULASKI (ILL.).

Paspalum lentiferum Lam.

Beadgrass

Classification: Illinois: Considered rare by this investigator.



Description: Robust, erect perennial. Leaves to 7 mm wide, pilose. Racemes 4-5, spreading-ascending. Rachis 1.5-2.0 mm wide. Spikelets suborbicular, 2.7-3.4 mm long.

Habitat: Wet, roadside ditches.

Range: Virginia to Florida and Texas; Illinois.

Notes: This species is far out of its normal natural range. The first Illinois collection was made by S. G. Boyce from Pulaski County in 1961. It is also known from Massac County.

This species is unknown from Missouri.

CALLAWAY (MO).

Panicum calliphyllum Ashe

Panic Grass

Classification: Missouri: Rare.



Description: Slender perennial. Stems with appressed hairs. Leaves not velvety-hairy. Spikelets 2.9-3.8 mm long.

Habitat: Oak-hickory woods.

Range: Maine and Ontario to Connecticut, Pennsylvania, Ohio, Michigan, and Missouri.

Notes: The Callaway County collection was made by J. A. Steyermark 65453. There is also a Missouri collection from Ripley County.

This grass is unknown from Illinois.

ALEXANDER (ILL).

Panicum hians Ell.

Panic Grass

Classification: Illinois: Considered very rare by
this investigator.



Description: Tufted perennial. Leaves 1-5 mm broad,
pilose on the upper surface near the base. Spikelets
1.5-2.4 mm long, glabrous.

Habitat: Low roadside ditch.

Range: Virginia to southern Illinois to Oklahoma, south
to New Mexico and Florida; Mexico.

Notes: The single Illinois collection was made in the
vicinity of Gale, June 30, 1968, by R. H. Mohlenbrock
13004.

This species is rare in Missouri where it is
known from five counties in the southeast corner of
the state, all just outside the St. Louis District.

JOHNSON (ILL.).

Panicum joori Vasey

Joor's Panic Grass

Classification: Illinois: Considered very rare by
this investigator.



Description: Tufted perennial. Leaves up to 1.5 cm broad, glabrous except for some cilia near the base. Spikelets 3.0-3.2 mm long, ellipsoid, pubescent.

Habitat: Low, swampy woods.

Range: Virginia to Arkansas, south to southeastern Texas and Florida; southern Illinois; Mexico.

Notes: This species is disjunct in its distribution. The Illinois collection was made at Heron Pond, August 4, 1969, by J. White 1042.
This grass is unknown from Missouri.

MONROE (ILL.).

Panicum longifolium Torr.

Panic Grass

Classification: Illinois: Considered very rare by
this investigator.



Description: Tufted perennial. Leaves 2-5 mm broad,
pilose near the base above. Spikelets 2.0-2.7 mm
long, 0.7 mm broad, lance-ellipsoid, glabrous.

Habitat: Rocky ledges in a wooded ravine.

Range: Massachusetts to Ohio and Illinois, south to
Texas and Florida.

Notes: The only collection of this grass from the two-
state area is from near Fults, October 26, 1962,
J. Ozment, R. H. Mohlenbrock, and W. Crews 12799.

JACKSON, JOHNSON (ILL).

Panicum malacophyllum Nash

Panic Grass

Classification: Illinois: Considered rare by this investigator.



Description: Tufted perennial. Leaves to 12 mm broad, velvety on both surfaces. Spikelets 2.9-3.0 mm long, ellipsoid-obovoid, papillose-pilose.

Habitat: Limestone bluffs; dry woods.

Range: Illinois to Kansas, south to Texas and Tennessee.

Notes: This grass was first found in Illinois in Jackson County (Devil's Bake Oven, one mile north of Grand Tower, July 21, 1963, J. Ozment 1071). It subsequently has been found in Johnson and Pope counties.

In Missouri, this grass is relatively common in the southwestern counties but rare elsewhere.

JACKSON (ILL).

Panicum nitidum Lam.

Panic Grass

Classification: Illinois: Considered very rare by
this investigator.



Description: Tufted perennial. Nodes with reflexed
hairs. Leaves to 10 mm broad. Spikelets 1.8-2.0
mm long, ellipsoid, puberulent.

Habitat: Xeric limestone blufftop.

Range: Virginia to Florida and Texas; Illinois; Missouri;
West Indies; Mexico.

Notes: The only location in Illinois for this grass is
the Devil's Backbone, one mile north of Grand Tower,
July 3, 1963, J. Ozment 960.

There is also but one collection from Missouri,
from Carter County, in 1893.

WASHINGTON (MO).

Panicum philadelphicum Bernh. var. tuckermanii (Fern.)
Steiermark & Schmolli

Tuckerman's Panic Grass

Classification: Missouri: Rare.



Description: Perennial. Leaves up to 6 mm broad. Panicle up to 20 cm long. Spikelets 1.5-2.0 mm long, glabrous.

Habitat: Gravel bar.

Range: Nova Scotia and Quebec to Minnesota, south to Missouri, Ohio, and Virginia.

Notes: The only collection in the two-state area is along the Meramec River, vicinity of Green Cave, September 26, 1954, J. A. Steiermark 77796.

JOHNSON (ILL).

WAYNE (MO).

Panicum stipitatum Nash

Panic Grass

Classification: Illinois: Considered very rare by this investigator.

Missouri: Considered rare by this investigator.



Description: Tufted perennial. Stems to nearly 1 m tall. Leaves to 12 mm broad. Panicle to 20 cm long, often purple. Spikelets 2.5-2.8 mm long.

Habitat: Moist soil.

Range: Connecticut to Missouri, south to Texas and Florida.

Notes: The lone Illinois collection was made one mile west of West Vienna, June 27, 1964, R. H. Mohlenbrock 12634.

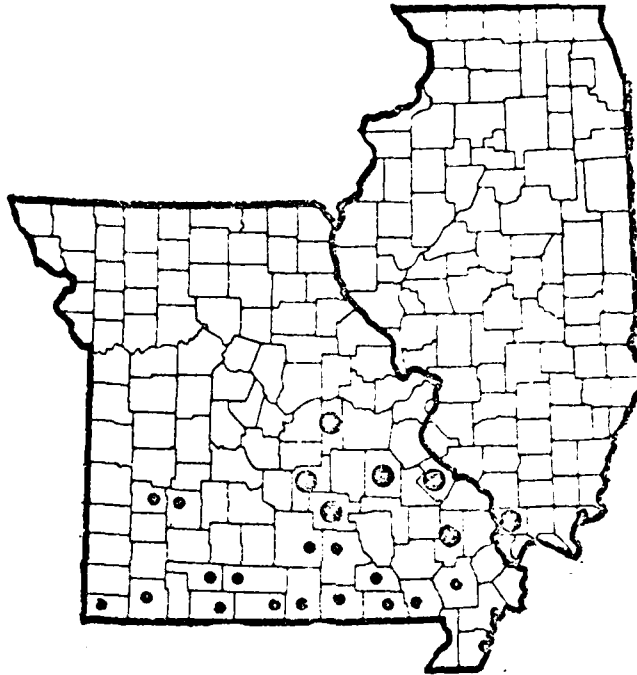
In addition to Wayne County, this species is known in Missouri from Dunklin and Shannon counties. No Missouri collection has been made since 1905.

UNION (ILL).

Panicum ravenelii Scribn. & Merrill

Ravenel's Panic Grass

Classification: Illinois: Considered rare by this investigator.



Description: Tufted perennial. Nodes with reflexed hairs. Leaves to 20 mm broad, more or less glabrous above, densely velvety-pubescent beneath. Spikelets 4.0-4.3 mm long, ellipsoid, sparsely papillose-pubescent.

Habitat: Cherty ravines; rocky woods.

Range: Delaware to southern Missouri and eastern Oklahoma, south to eastern Texas and northern Florida.

Notes: The Union County collection was made 1/2 mile south of the Atwood Ridge Lookout Tower southwest of Jonesboro, J. Schwegman 1916, in 1971. It is also known in Illinois from Hardin County.

In Missouri, this grass is relatively frequent across the Missouri Ozarks.

CALHOUN, PIKE (ILL).

Leptochloa panicoides (Presl) Hitchc.

Salt Meadow Grass

Classification: Illinois: Considered rare by this investigator.



Description: Annual to nearly 1 m tall. Leaves 5-10 mm broad. Panicle rather lax, to 20 cm long. Spikelets 5- to 7-flowered, awnless.

Habitat: Low areas.

Range: Indiana; Illinois; Missouri; Mississippi; Arkansas; Texas; Brazil.

Notes: This species was first collected in Illinois in both Calhoun and Pike counties by R. A. Evers in 1963.

The species is equally rare in Missouri, where it is known only from New Madrid County.

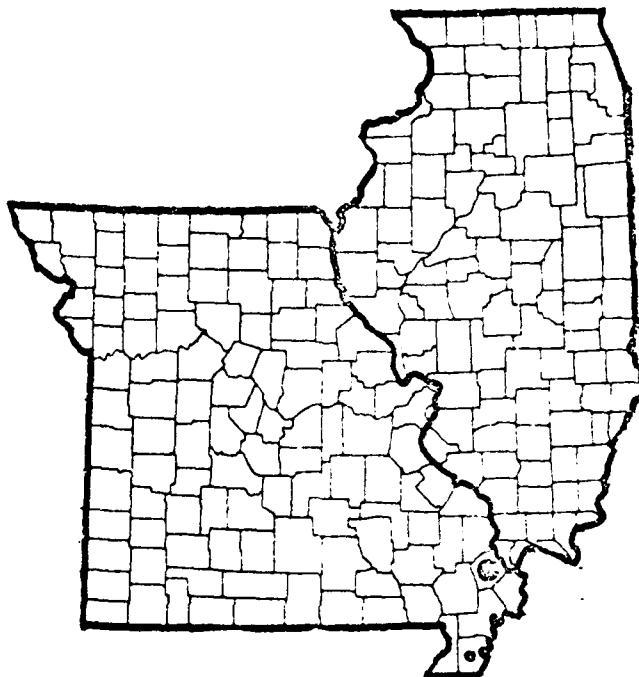
Steiermark calls this species Diplachne halei Nash.

SCOTT (MO).

Brachiaria platyphylla (Griseb.) Nash

Broad-leaved Brachiaria

Classification: Missouri: Rare.



Description: Annual. Inflorescence of several spreading or appressed racemes arranged racemose or pinate along the main axis. Spikelets 4.0-4.5 mm long, glabrous.

Habitat: Wet roadside ditches.

Range: Southeastern Missouri to Oklahoma, south to Texas and Florida.

Notes: The Scott County collection was made 4 1/2 miles east of Vanduser, November 1, 1956, J. A. Steyermark 83578. A second Missouri station is in Pemiscot County.

This species is unknown from Illinois.

CASS, MORGAN (ILL).

Aristida desmantha Trin. & Rupr.

Three Awn

Classification: Illinois: Considered rare by this investigator.



Description: Annual to 80 cm tall. Leaves 1-4 mm broad. Panicle loosely branched. Glumes equal, short-awned.

Habitat: Sandy soil.

Range: Illinois; Nebraska; Texas.

Notes: This species was first found in Illinois in 1861. This grass is unknown from Missouri.

MISSISSIPPI (MO).

Manisuris cylindrica (Michx.) Ktze.

Joint Grass

Classification: Missouri: Rare.



Description: Perennial. Stems up to 3 m tall.
Leaves up to 3 mm broad, very narrow. Spikelets
sunken in pairs in the rachis.

Habitat: Sandy ground.

Range: South Carolina to Oklahoma, south to Texas and
Florida.

Notes: In addition to Mississippi County, this species
is known in Missouri from Barton and Jackson coun-
ties.

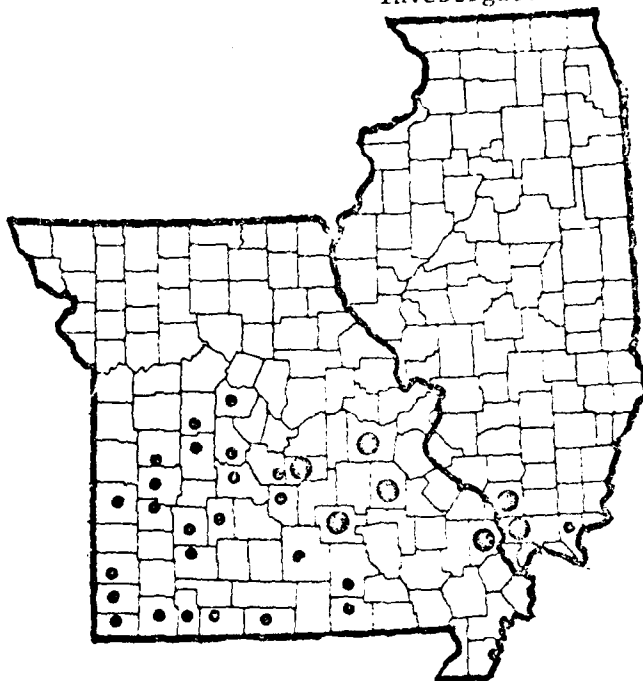
This grass is unknown from Illinois.

JACKSON, UNION (ILL).

Muhlenbergia capillaris (Lam.) Trin.

Thread-leaved Muhly; Hair Grass

Classification: Illinois: Considered rare by this investigator.



Description: Tufted perennial. Leaves involute, 2-4 mm broad. Panicle spreading, 20-45 cm long. Spikelets (excluding the awns) 3.0-4.5 mm long.

Habitat: Sandy woodlands.

Range: Massachusetts to Kansas, south to Texas and Florida.

Notes: This grass is found throughout southern Missouri.

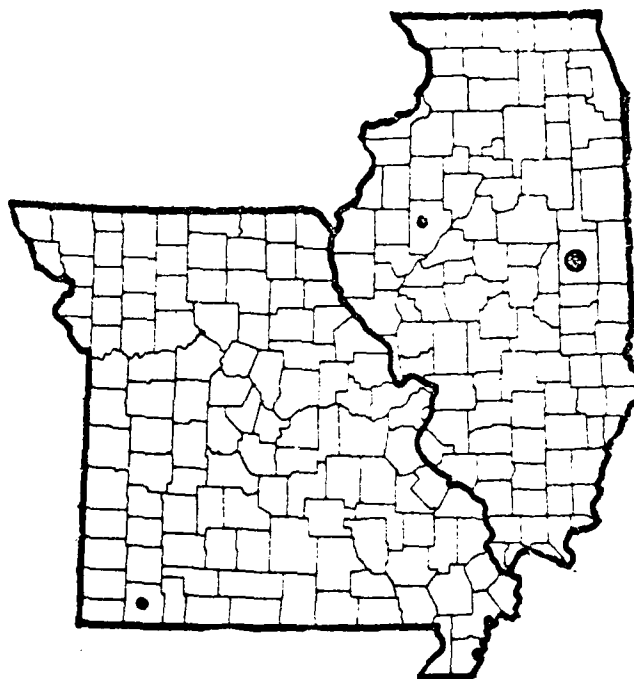
CHAMPAIGN (ILL.).

Muhlenbergia X curtisetosa (Scribn.) Pohl

Muhly

Classification: Federal: Threatened.

Illinois: Considered very rare and probably extinct by this investigator.



Description: Perennial. Leaves 2-5 mm broad. Panicle slender, contracted, to 10 cm long. Spikelets 2-3 mm long. Awn 0.5-1.0 mm long.

Habitat: Woodlands.

Range: Pennsylvania; Indiana; Illinois; Iowa; Missouri; Arkansas.

Notes: The type locality for this species is in Fulton County, where it was first collected by J. Wolf in 1881. It was later found in Champaign County in 1892 by G. P. Clinton.

In Missouri, this grass is known only from Barry County.

Steiermark (1963) calls this grass M. schreberi Gmel. var. curtisetosa (Scribn.) Steiermark & Kucera.

Muhlenbergia X curtisetosa (Scribn.) Pohl (Cont'd.)

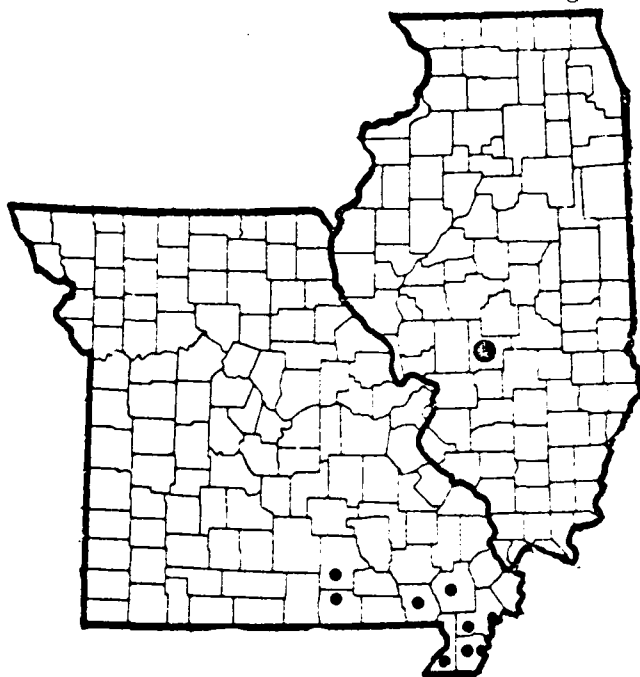
This grass is a reputed hybrid between M.
schreberi and some rhizomatous species.

MONTGOMERY (ILL).

Zizaniopsis miliacea (Michx.) Doell & Aschers

Southern Wild Rice

Classification: Illinois: Considered very rare by this investigator.



Description: Robust perennial to 3 m tall. Leaves to 2 cm broad. Panicle nodding to 60 cm long. Spikelets unisexual, 1-flowered.

Habitat: Edge of lake.

Range: Maryland to Kentucky, southeastern Missouri, and eastern Oklahoma, south to Texas and Florida.

Notes: This species was collected in Illinois at the edge of Lake Hillsboro, October 4, 1961, by G. S. Winterringer 18526.

In Missouri, this species is known from seven counties in the southeastern corner of the state, but all of them are out of the St. Louis District.

ST. LOUIS (MO).

Cyperus compressus L.

Coco Grass

Classification: Missouri: Considered rare by this investigator.



Description: Tufted annual. Stems to 25 cm tall.
Leaves up to 2 mm broad. Spikelets narrow lanceolate, 8-20 mm long, very flat, many-flowered.

Habitat: Wet fields; swampy ground.

Range: Delaware to southeast Missouri, south to Texas and Florida; Mexico; Central America; South America; West Indies.

Notes: In addition to St. Louis County, this sedge is known in Missouri from Butler and Dunklin.
In Illinois, this species has been found once, as an adventive, in Lawrence County.

MISSISSIPPI (MO).

Cyperus dipsaciformis Fern.

Teasel-like Cyperus

Classification: Missouri: Status Undetermined,
but considered rare by
this investigator.



Description: Perennial with tuber-like corms. Stems up to 1 m tall. Leaves up to 5 mm broad. Heads oblongoid to obovoid. Spikelets all strongly reflexed.

Habitat: Sandy fields; sandy, open woods.

Range: New Jersey across Maryland and Kentucky to southeastern Missouri, south to Georgia.

Notes: Other Missouri counties for this species are Dunklin and Stoddard. It has not been collected for several years.

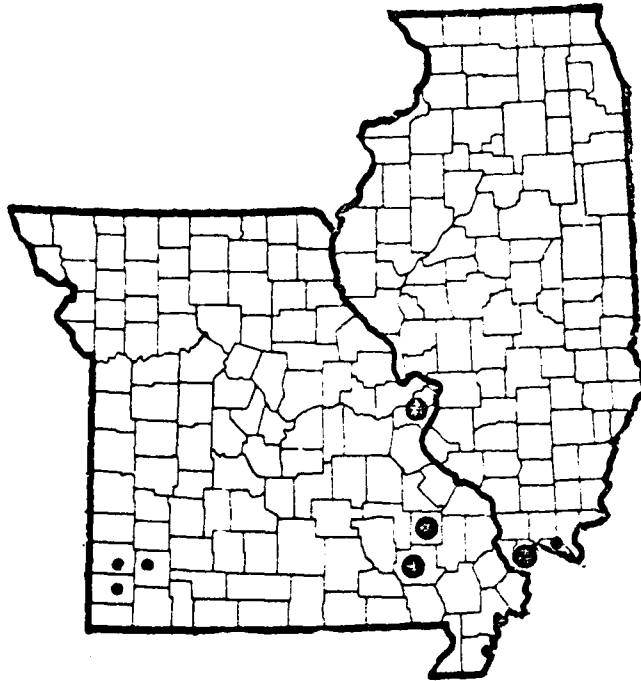
This sedge is unknown from Illinois.

PULASKI (ILL.).

Cyperus lancastriensis Porter

Lancaster Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Perennial with corms. Stems to 0.7 m tall. Leaves up to 6 mm wide. Heads oval, to 2.5 cm long, the lower spikelets reflexed, the middle spikelets spreading.

Habitat: Moist, sandy woods.

Range: New Jersey across Ohio to Missouri, south to Arkansas and Georgia.

Notes: The Pulaski County collection was made by R. A. Evers. This species is also known in Illinois from Massac County.

In Missouri, this species is known from six counties, including Madison, St. Louis, and Wayne.

COLES (ILL).

RALLS (MO).

Eleocharis parvula (Roem. & Schultes) Link

Small Spikerush

Classification: Illinois: Considered very rare by
this investigator.

Missouri: Rare.



Description: Plants small, slender, up to 10 cm tall.
Stems terete. Achenes gradually narrowed to the
tubercle.

Habitat: Wet soil.

Range: Minnesota to Oregon, south to Texas and Louisiana;
Mexico; West Indies; South America.

Notes: The only Illinois collection was made in 1973
by J. Ebinger.

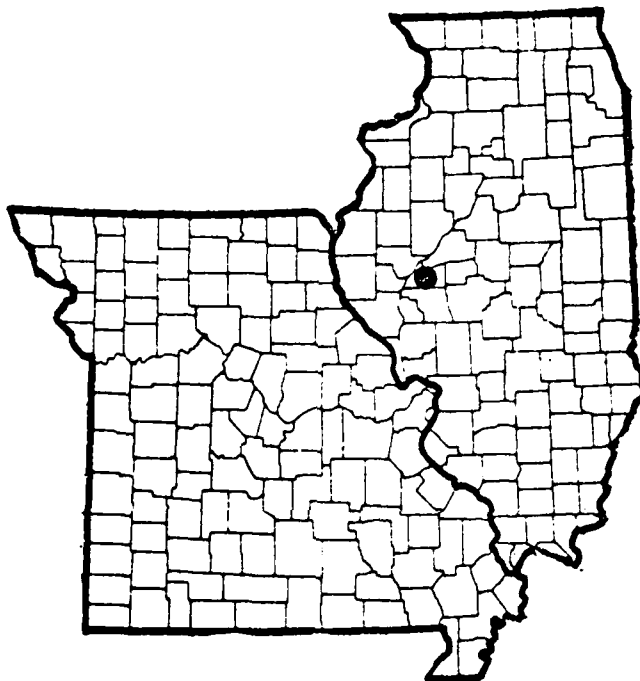
In Ralls County, this plant was found at Salt
Lick Creek by J. A. Steyermark (66458). It also
occurs in Cooper and Saline counties.

CASS (ILL).

Lipocarpa maculata (Michx.) Torr.

Lipocarpa

Classification: Illinois: Considered very rare by
this investigator.



Description: Dwarf annual. Spikelets ovoid-cylindrical,
3-7 mm long.

Habitat: Edge of pond.

Range: Virginia and North Carolina to Florida and Ala-
bama; Illinois.

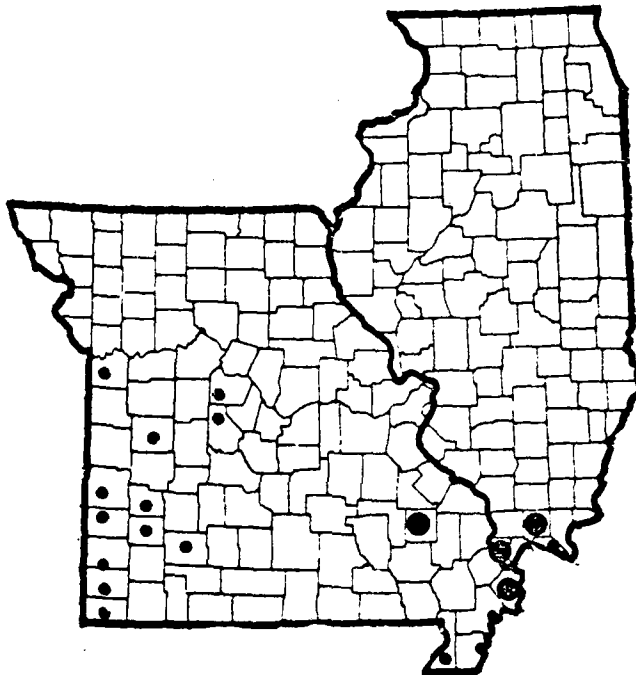
Notes: The R. Rexroat collection on September 3, 1957,
from east of Beardstown is several hundred miles
disjunct from the usual range of this species.

ALEXANDER, JOHNSON (ILL).

Fimbristylis baldwiniana Torr.

Baldwin's Fimbristylis

Classification: Illinois: Considered rare by this investigator.



Description: Annual. Spikelets obovoid, 3-10 mm long.

Habitat: Moist soil.

Range: Pennsylvania to Missouri, south to Texas and Florida.

Notes: This species is also known from Massac County, Illinois.

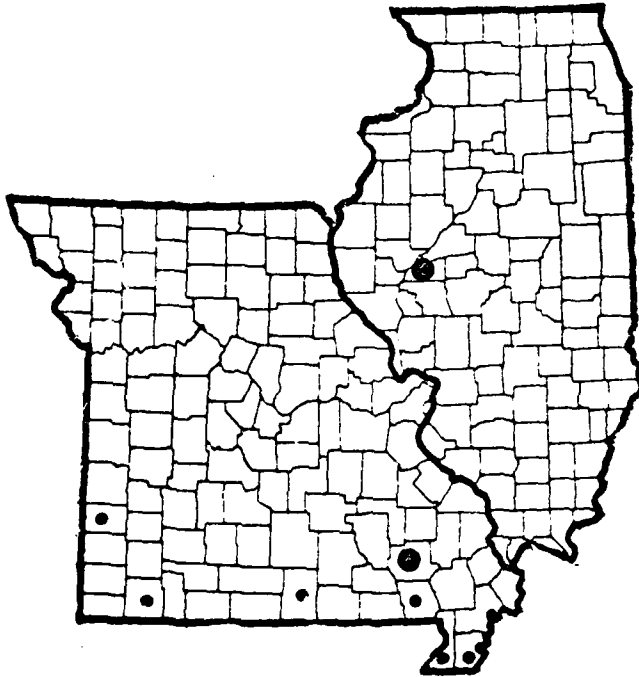
In Missouri, it is known from several counties in southern Missouri.

CASS (ILL).

Fimbristylis vahlii (Lam.) Link

Vahl's Fimbristylis

Classification: Illinois: Considered very rare by
this investigator.



Description: Annual. Leaves filiform. Spikelets 3-8,
cylindrical, 4-8 mm long.

Habitat: Very moist soil.

Range: North Carolina to Missouri, south to Texas and
Florida; California; Nicaragua; South America.

Notes: The only Illinois collection was made west of
Virginia on September 3, 1957, by R. Rexroat 6645.
In Missouri, this sedge is known from seven
counties, including Wayne.

HAMILTON (ILL).

Fuirena scirpoides Michx.

Bulrush Fuirena

Classification: Illinois: Considered very rare by
this investigator.



Description: Small perennial. Leaves reduced to
sheaths. Achenes subtended by oblong-ovate scales.

Habitat: Edge of lake.

Range: North Carolina to Arkansas, south to Louisiana
and Florida.

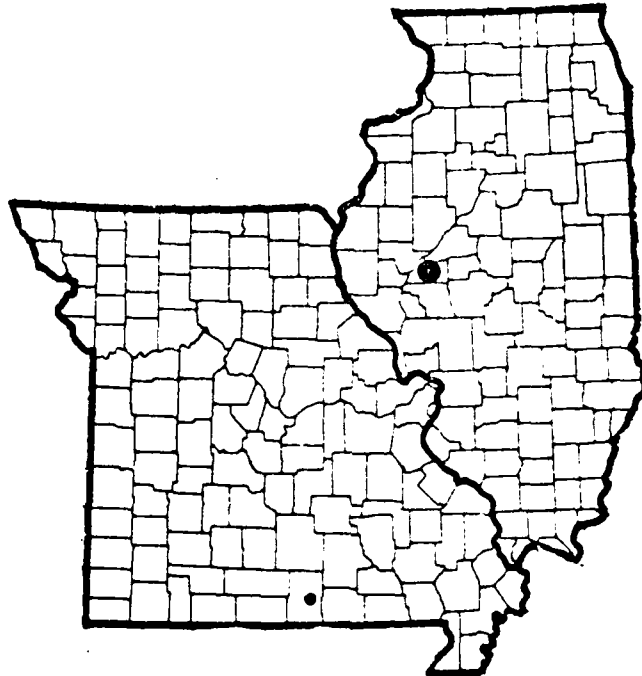
Notes: N. Tracy collected this species from the edge
of Dolan Lake east of McLeansboro in 1972. It is
several hundred miles from the nearest known station
for it.

CASS (ILL).

Scirpus hallii Gray

Hall's Bulrush

Classification: Illinois: Considered rare by this investigator.



Description: Tufted annual. Involucral leaf 1. Spikelets 1-7, ovoid-cylindric, 5-15 mm long.

Habitat: Shores of ponds.

Range: Massachusetts; Georgia; Florida; Texas; Illinois; Missouri.

Notes: R. Rexroat collected this plant southeast of Beardstown in 1958. It also has been found in Mason and Menard counties.

In Missouri, this species is known only from Howell County.

JEFFERSON (MO).

Scirpus olneyi Gray

Olney's Bulrush

Classification: Missouri: Status Undetermined, but considered very rare and probably extinct by this investigator.



Description: Perennial. Stems sharply 3-angled, hollow, up to 1.3 m tall. Leaves 1-3. Spikelets capitate in dense clusters of 5-12, obtuse, to 8 mm long.

Habitat: Sulfur spring.

Range: Along the coast from Nova Scotia to Florida; also New York, Ohio, Michigan, Missouri, Idaho, Oregon; Mexico; Central America; South America; West Indies.

Notes: The only collection of this species from the two-state area was by G. Engelmann on August 10, 1866.

CASS (ILL).

Scirpus smithii Gray

Smith's Bulrush

Classification: Illinois: Considered very rare by
this investigator.



Description: Tufted annual. Involucral leaf 1. Spike-
lets 1-6, ovoid, 5-10 mm long.

Habitat: Wet shores.

Range: Quebec to Minnesota, south to Illinois and Vir-
ginia.

Notes: The only Illinois collection of this sedge was
made southeast of Beardstown by R. Rexroat.

ST. CLAIR (ILL).

Scirpus torreyi Olney

Torrey's Bulrush

Classification: Illinois: Considered very rare and probably extinct by this investigator.



Description: Perennial. Leaves 2-3. Involucral leaf
1. Spikelets 1-4, ovoid-cylindric, to 15 mm long.

Habitat: Shores of ponds.

Range: Quebec to Manitoba, south to South Dakota,
Missouri, and Pennsylvania.

Notes: The only Illinois collection was made east of
Belleville by G. Engelmann in 1834.

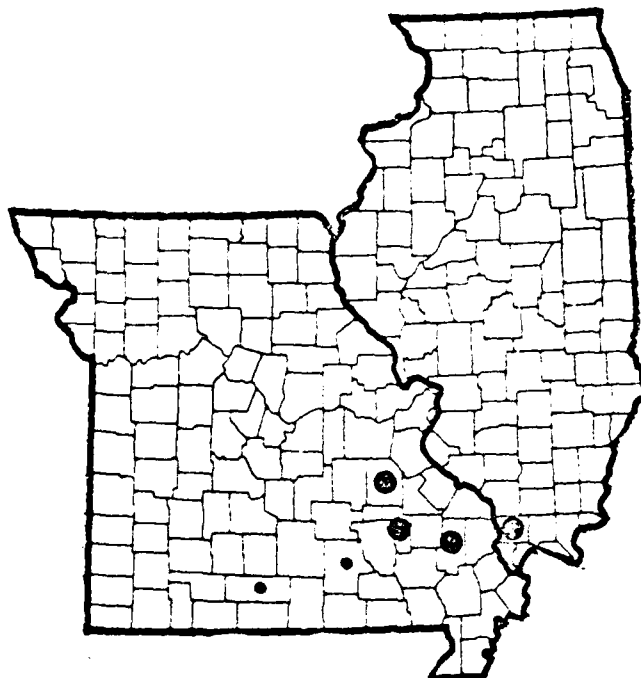
A single collection is known in Missouri from
Laclede County.

UNION (ILL).

Scirpus verecundus Fern.

Small Bulrush

Classification: Illinois: Considered very rare by
this investigator.



Description: Tufted annual. Tip of each stem with one
spikelet and no involucre leaf.

Habitat: Cherty slopes.

Range: Maine through Ohio to Missouri, east to Virginia.

Notes: The only Illinois collection was made by R. H.
Mohlenbrock in 1972.

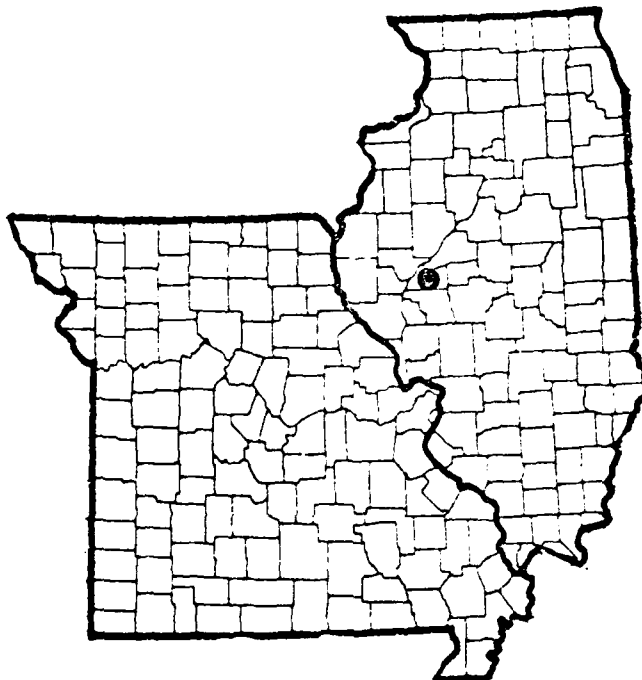
In Missouri, this species is known from five
counties in the Ozarks, including Bollinger, Iron,
and Washington counties.

CASS (ILL).

Eriophorum tenellum Nutt.

Slender Cotton Sedge

Classification: Illinois: Considered extinct by
this investigator.



Description: Slender perennial to 80 cm tall. Involucral
bract 1. Spikelets 1.2-1.7 cm long in flower.

Habitat: Bogs.

Range: Newfoundland to Saskatchewan, south to Minnesota,
Illinois, and New Jersey.

Notes: The only collection of this species from the bi-
state area was from Beardstown by Geyer nearly 150
years ago.

PULASKI (ILL).

Rhynchospora macrostachya Torr.

Large Beaked Rush

Classification: Illinois: Considered very rare by
this investigator.



Description: Robust perennial. Leaves 0.6-1.2 cm broad. Spikelets 7-45 in a glomerule. Beak 1.5-2.0 cm long.

Habitat: Swampy woods.

Range: Maine to Kansas, south to Texas and Florida.

Notes: The only Illinois collection was made by R. H. Mohlenbrock and J. W. Voigt north of Pulaski in 1961.

In Missouri, this species is known from eight counties in the extreme southern part of the state.

STE. GENEVIEVE (MO).

Scleria nitida Willd.

Shining Nutrush

Classification: Missouri: Rare.



Description: Perennial. Achene white, smooth, 2.8-3.3 mm tall, without tubercles at the base.

Habitat: Dry, exposed blufftops.

Range: New Jersey to Missouri, south to Louisiana and Florida.

Notes: The first Missouri collection was made at Pickle Springs on May 22, 1955, by R. H. Mohlenbrock. This species is also known in Missouri from Stoddard County.

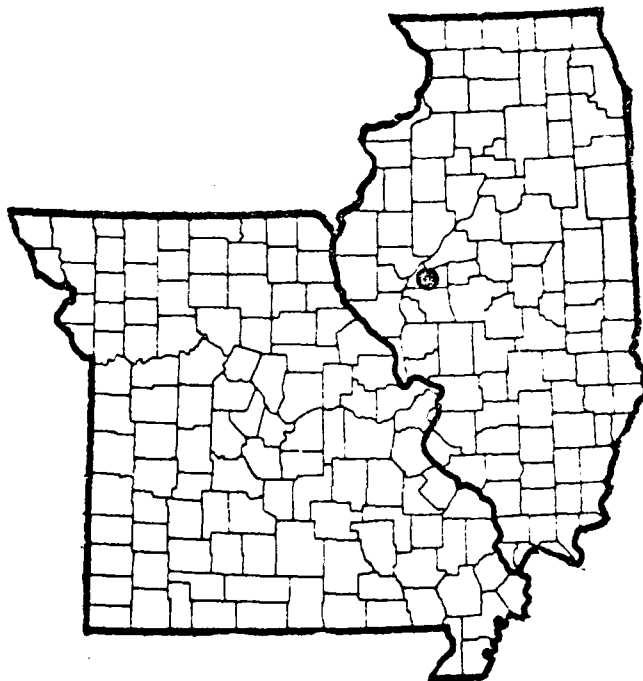
This species is unknown from Illinois.

CASS (ILL).

Scleria reticularis Michx.

Reticulated Nutrush

Classification: Illinois: Considered very rare by
this investigator.



Description: Slender annual. Achenes white, obovoid,
1.8-2.2 mm long, reticulate.

Habitat: Edge of pond.

Range: Massachusetts to Delaware; South Carolina to
Florida; Illinois; Indiana; Mexico.

Notes: R. Rexroat first collected this species west of
Virginia on September 14, 1956.
It is unknown from Missouri.

JACKSON (ILL).

Carex abdita Bickn.

Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Tufted perennial. Perigynia pubescent, short-beaked.

Habitat: Dry woods and prairies.

Range: Newfoundland to Saskatchewan, south to Missouri, Illinois, Tennessee, and Virginia.

Notes: In addition to Jackson County, this species is known in Illinois from Pope County.

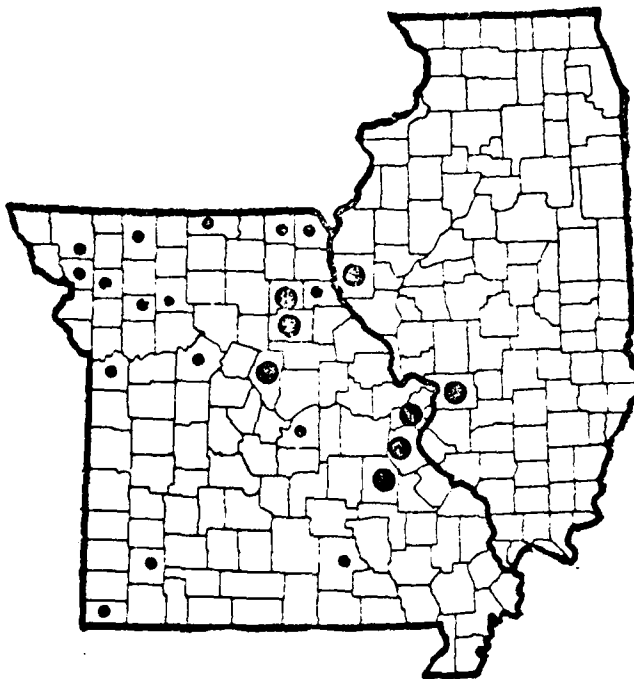
This species is known in Missouri from six western counties.

ADAMS, MADISON (ILL).

Carex aggregata Mack.

Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Slender perennial. Spikes ovoid, densely aggregated. Perigynia ascending or spreading, ovate, 2.5-3.0 mm long, beaked.

Habitat: Woods.

Range: New York to Kansas, south to Oklahoma, Kentucky, and New Jersey.

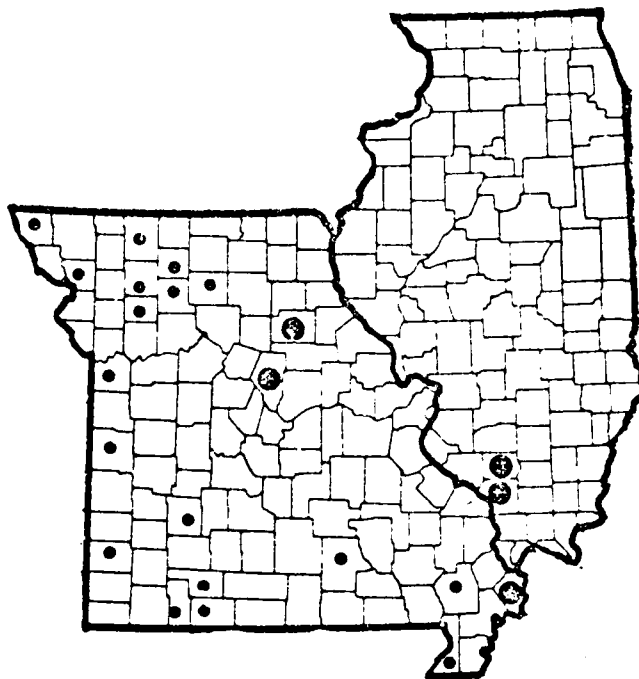
Notes: The Adams County collection was made along Burton Creek, July 15, 1943, by G. D. Fuller 8054.
This species is scattered over much of Missouri.

JACKSON, PERRY (ILL).

Carex austrina (Small) Mack.

Southern Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Perennial. Spikes ovoid. Perigynia ascending, suborbicular, beaked, 3.5-4.0 mm long.

Habitat: Prairies; dry upland woods.

Range: Illinois to Kansas, south to Texas and Arkansas.

Notes: The Jackson County collection was made 1 mile north of DeSoto on May 27, 1958, by D. Schuchardt. The Perry County collection was made at Pyatts on May 27, 1958, by R. H. Mohlenbrock 10009.

In Missouri, this species is scattered over much of the state.

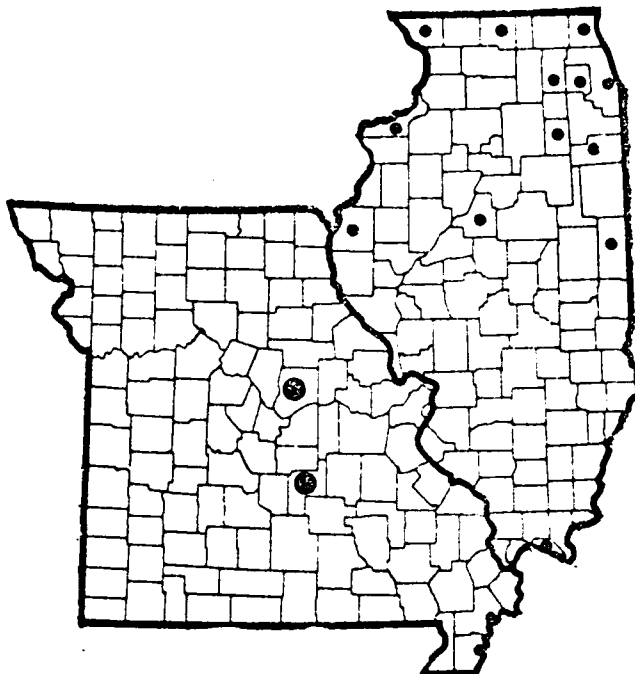
Steiermark calls this plant C. muhlenbergii Schk. var. australis Olney.

CALLAWAY, PHELPS (MO).

Carex conoidea Schkuhr

Field Sedge

Classification: Missouri: Endangered.



Description: Perennial to 2.5 m tall. Pistillate spikes 1-3. Perigynia oval, beakless, up to 3 mm long.

Habitat: Dry prairies.

Range: Newfoundland to Ontario, south to Missouri, Ohio, and Delaware.

Notes: The Callaway County collection was made west of Kingdom City, June 7, 1940, by W. R. Drew 104. The Phelps County collection was made 2 miles southwest of Elk Prairie on May 7, 1951, by J. A. Steyermark 71201.

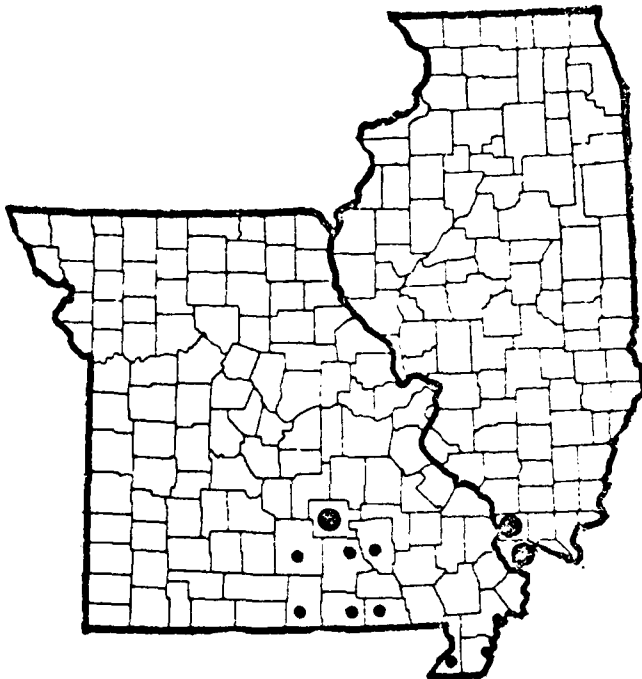
In Illinois, this species is scattered in the northern half of the state and in Massac County.

PULASKI, UNION (ILL).

Carex decomposita Muhl.

Cypress Knee Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Plants very dark green. Spikes numerous.
Perigynia obovoid, abruptly beaked, 2.0-2.5 mm long.

Habitat: Swamps; sink-hole ponds.

Range: New York to Michigan, south to Missouri, Louisiana, and Florida.

Notes: This species was first found in Illinois in Union County in the LaRue Swamp on June 27, 1951, by W. M. Bailey and J. R. Swayne 1499.

This species is known from eight southeastern Missouri counties, including Dent.

UNION (ILL).

Carex emmonsii Dewey

Emmons' Sedge

Classification: Illinois: Considered very rare by
this investigator.



Description: Tufted perennial. Perigynia pubescent,
oblong-obovoid.

Habitat: Dry woods.

Range: Quebec to Alaska, south to Illinois and Pennsylv-
ania.

Notes: This species is known in the bi-state area from
a collection made by R. H. Mohlenbrock in the Pine
Hills.

JOHNSON, UNION (ILL).

Carex gigantea Rudge

Giant Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Stout perennial. Pistillate spikes cylindric, up to 6 cm long. Perigynia 12-18 mm long, long-beaked.

Habitat: Swampy woods.

Range: Delaware to southeastern Missouri, south to Texas and Florida.

Notes: This species was first found in Illinois near Otter Pond in Union County by S. Poellot in 1969. It occurs at Heron Pond in Johnson County.

In Missouri, it occurs in 8 southeastern counties, including Scott and Wayne.

ST. LOUIS (MO).

Carex gracillima Schwein.

Graceful Sedge

Classification: Missouri: Status Undetermined, but
considered probably ex-
tinct by this investigator.



Description: Slender perennial. Pistillate spikes
pendulous. Perigynia ovoid-oblong, smooth, 2-3 mm
long, beakless.

Habitat: Low woods.

Range: Newfoundland to Manitoba, south to Missouri,
Tennessee, and Virginia.

Notes: The St. Louis County collection was made near
Allenton on June 10, 1887, by H. Eggert. It has
also been found in 1889 in Greene County.

In Illinois, this species is confined to the
northern part of the state.

JOHNSON (ILL).

Carex intumescens Rudge

Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Tufted perennial. Pistillate spikes nearly globular. Perigynia 1-12, 10-20 mm long, beaked.

Habitat: Swampy woods.

Range: Nova Scotia to Ontario, south to Texas and Florida.

Notes: The Johnson County collection is from Heron Pond southwest of Vienna.

In Missouri, this species is known from 8 southeastern counties, including Cape Girardeau, Mississippi, Scott, and Wayne.

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ARMY ENGINEER DISTRICT ST LOUIS MO

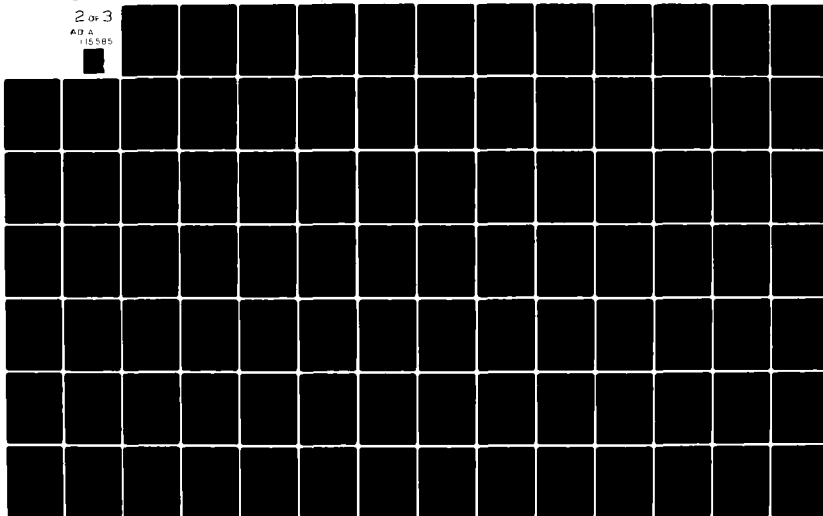
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AN INVENTORY OF RARE AND ENDANGERED PLANT SPECIES FOUND IN THE --ETC(U)
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JOHNSON, UNION (ILL).

Carex oxylepis Torr. & Hook.

Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Slender perennial. Spikes spreading or pendulous. Perigynia oblong-oval, punctate, beakless, 3.5-4.0 mm long.

Habitat: Swampy woods.

Range: Virginia to southeastern Missouri, south to Texas and Florida.

Notes: The first collection from Illinois was from Union County east of Dongola on July 11, 1955, by J. W. Voigt and R. H. Mohlenbrock 5553.

This species is confined to four counties in southeastern Missouri.

RANDOLPH, UNION (ILL).

MISSISSIPPI (MO).

Carex physorhyncha Liebm.

Bellows-beaked Sedge

Classification: Missouri: Threatened.

Illinois: Considered rare by this
investigator.



Description: Tufted perennial with scaly rhizomes.
Perigynia pubescent, ovoid.

Habitat: Dry, rocky woods; sandy soil.

Range: Virginia to Oklahoma, south to Texas and Florida;
Mexico.

Notes: The Illinois collections were made by R. H.
Mohlenbrock from Piney Creek and the Pine Hills.
J. A. Steyermark collected the Mississippi
County specimen 2 miles west of Charleston, May 2,
1936. It is also known from Dunklin County.

ADAMS (ILL).

Carex prasina Dewey

Sedge

Classification: Illinois: Considered very rare by
this investigator.



Description: Plants light green. Pistillate spikes
pendulous. Perigynia ovate-lanceolate, 3.5-4.0
mm long.

Habitat: Meadows.

Range: Maine to Michigan, south to Illinois, Ohio, and
Georgia.

Notes: The only locality in the bi-state area is from
Siloam Springs State Park where it was found by
J. Schwegman in 1972.

ST. LOUIS (MO).

Carex schweinitzii Dew.

Schweinitz's Sedge

Classification: Missouri: Endangered.



Description: Robust perennial. Perigynia ovoid, long-beaked, smooth.

Habitat: Low areas.

Range: Ontario to Michigan, south to Missouri, Tennessee, and North Carolina.

Notes: This species, which may be adventive in Missouri, was found in St. Louis along the Mississippi River on May 7, 1955, by V. Muehlbach and K. Kramer.

UNION (ILL).

Carex striatula Michx.

Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Pale green perennial. Pistillate spikes usually 2, erect. Perigynia obovoid-fusiform, strongly nerved, 4.0-4.5 mm long.

Habitat: Rich woods.

Range: New York to Illinois, south to Texas and Florida.

Notes: This species is also known from Pope County, Illinois.

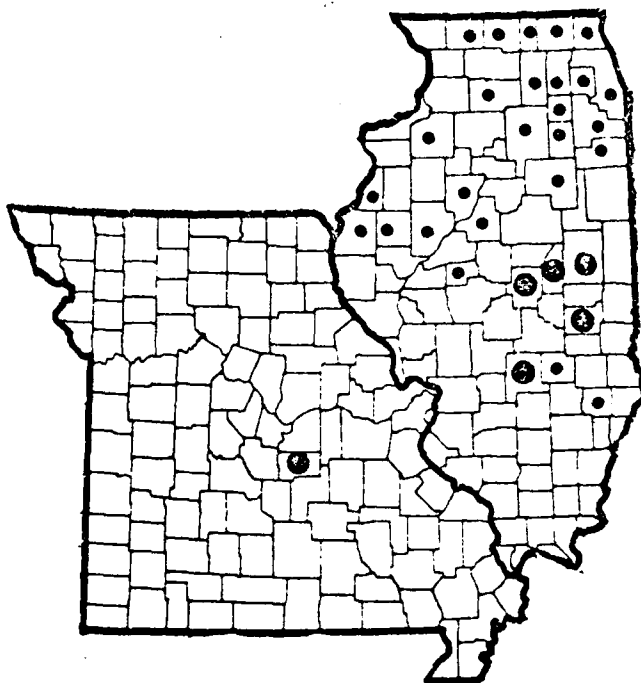
It is unknown from Missouri.

MARIES (MO).

Carex stricta Lam. var. strictior (Dew.) Carey

Tussock Sedge

Classification: Missouri: Endangered.



Description: Perennial in dense clumps. Pistillate spikes 2-5. Staminate spike solitary. Perigynia ovate-elliptic, minutely beaked.

Habitat: Swampy meadows.

Range: Quebec to Ontario, south to Missouri, Tennessee, and North Carolina.

Notes: The Maries County collection was made 11 miles south of Meta, July 6, 1952, by J. A. Steyermark 73686. It is also known from Reynolds County.

In Illinois this species is scattered in the northern two-thirds of the state.

JACKSON (ILL).

Carex styloflexa Buckl.

Sedge

Classification: Illinois: Considered very rare by
this investigator.



Description: Loosely tufted perennial. Lowest pistillate spikes pendulous. Perigynia elliptic-fusiform, many-nerved, 4.0-4.5 mm long, beaked.

Habitat: Woods.

Range: Connecticut to Illinois, south to Texas and Florida.

Notes: The only location for this species in the bi-state area is at Lake Murphysboro State Park where it was found by R. H. Mohlenbrock.

MACON, PERRY, ST. CLAIR (ILL).

Carex X subimpressa Clokey

Sedge

Classification: Illinois: Considered rare by this investigator.



Description: Robust perennial. Perigynia pubescent, strongly nerved, beaked.

Habitat: Wet ground.

Range: Indiana; Illinois; Missouri.

Notes: This hybrid is also known in Missouri from Bates, Clinton, and Lewis County.

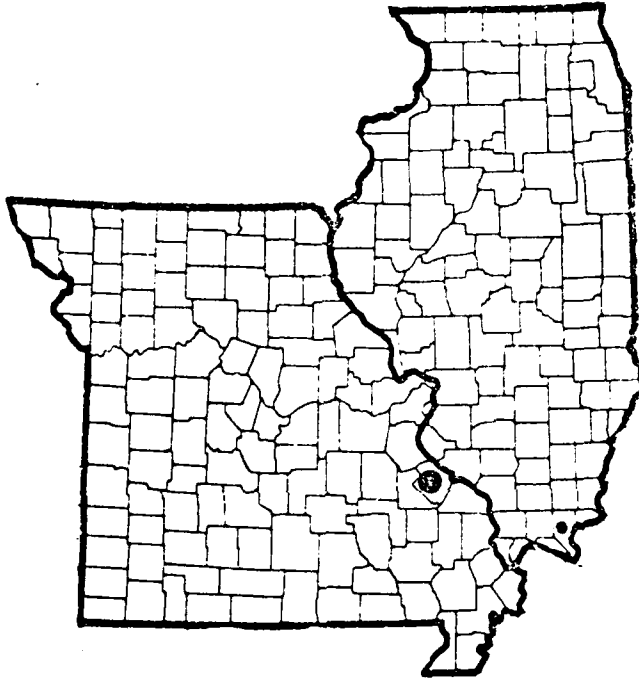
This is a hybrid between C. lanuginosa and C. hyalinolepis.

STE. GENEVIEVE (MO).

Carex tonsa (Fern.) Bickn.

Shaved Sedge

Classification: Missouri: Endangered.



Description: Tufted perennial. Perigynia smooth, oblong-orbicular.

Habitat: Rocky, wooded slopes.

Range: Quebec to Alberta, south to Missouri, Illinois, Indiana, and Virginia.

Notes: J. A. Steyermark collected this species 3 1/2-4 miles northwest of Coffman on May 11, 1957.

In Illinois, this species is known from Pope County.

WAYNE (MO).

Carex triangularis Boeckl.

Triangular Sedge

Classification: Missouri: Status Undetermined, but
considered probably ex-
tinct by this investigator.



Description: Perennial. Perigynia broadly triangular,
purple-speckled.

Habitat: Swamps.

Range: Southeastern Missouri to Oklahoma, south to Texas
and Mississippi.

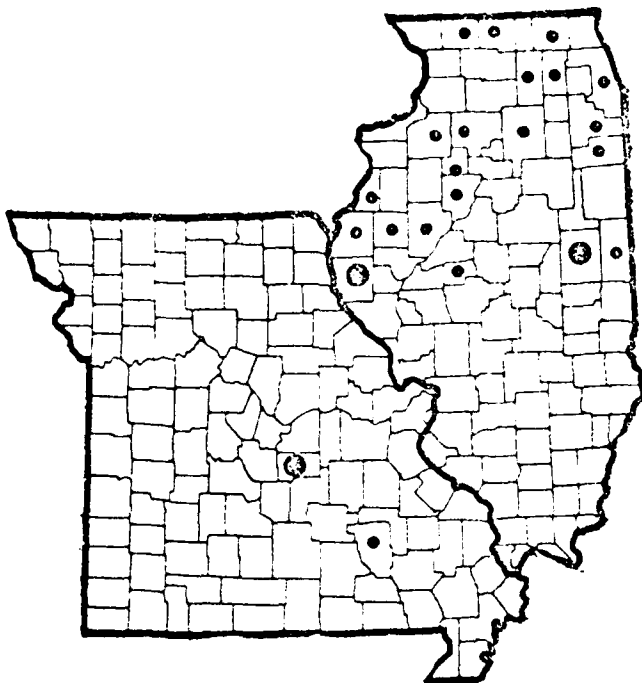
Notes: The Wayne County collection was made at Williams-
ville on June 5, 1893, by H. Eggert. This species
was also collected in 1892 from Dunklin County.
It is unknown from Illinois.

MISS (90).

Carex trichocarpa Muhl.

Hairy-fruited Sedge

Classification: Missouri: Rare.



Description: Stout perennial to 1.3 m tall. Perigynia ovoid, pubescent, prominently ribbed, 8-10 mm long, beaked.

Habitat: Swampy meadows.

Range: Quebec to Ontario, south to Missouri, Ohio, and Delaware.

Notes: The Maries County collection was made 11 miles south of Meta on July 6, 1952, by J. A. Steyermark 73685. It is also known from Reynolds County.

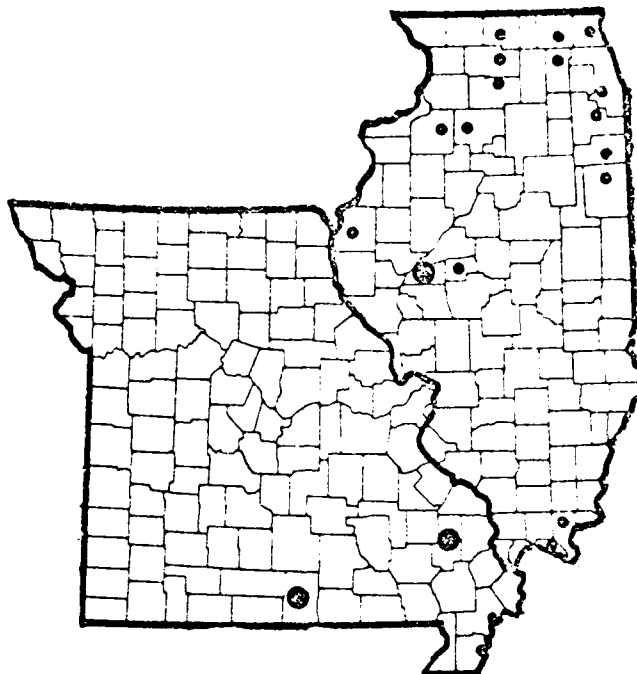
This species is scattered in the northern half of Illinois.

BOLLINGER (MO).

Juncus canadensis J. Gay

Canada Rush

Classification: Missouri: Endangered.



Description: Perennial. Stems cespitose. Leaves 3-4, 1-3 mm wide. Involucral leaf shorter than the inflorescence. Heads 5-60, hemispherical to spherical, 5- to 50-flowered.

Habitat: Wet ground of bogs, swamps, and meadows.

Range: Newfoundland to Minnesota, south to Louisiana and Georgia.

Notes: The Bollinger County specimen is from along Wash Creek, 1 1/2 miles east of Marquand, September 17, 1954, J. A. Steyermark 77565. It is also known from Howell County.

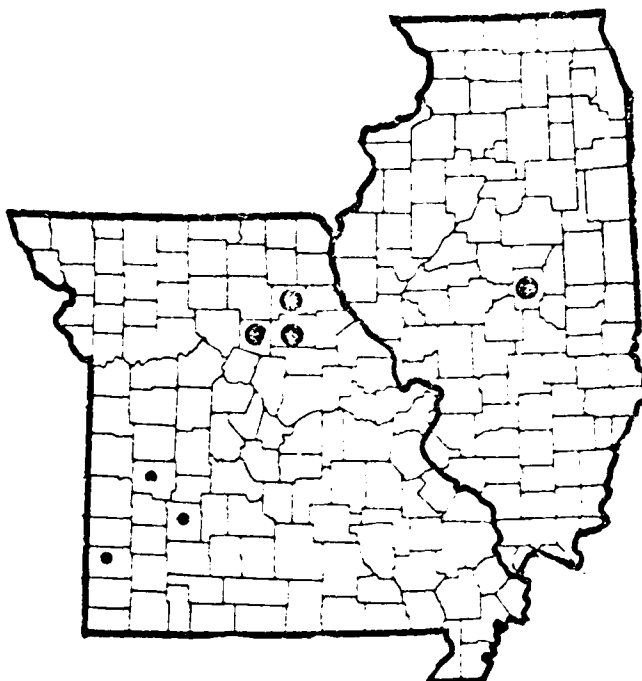
In Illinois, this species is occasional in the northern half of the state, but is rare in the southern half.

MACON (ILL).

Camassia angusta (Engelm. & Gray) Blankinship

Wild Hyacinth

Classification: Illinois: Considered very rare by
this investigator.



Description: Leaves basal, linear, to 35 cm long, to 1 cm broad. Scapes to 60 cm tall. Perianth parts deep lavender to pale purple, 7-10 mm long.

Habitat: Prairies and woodlands.

Range: Illinois to Kansas, south to Texas and Arkansas.

Notes: The only Illinois collection was made by G. S. Winterringer.

There are six counties for this species in Missouri, including Shelby (collected by J. A. Steyermark 64553) and Randolph (collected by Naylow and McVeigh) counties.

JACKSON (ILL).

Lilium superbum L.

Superb Turk's-cap Lily

Classification: Illinois: Considered endangered
by this investigator.



Description: Bulbs white. Stems to 2 m tall. Some or all the leaves whorled, smooth along the veins and margins. Flowers nodding. Perianth parts recurved, to 10 cm long, orange-red or orange, spotted with dark purple.

Habitat: Low, moist woodlands.

Range: New Hampshire to southern Illinois, south to Alabama and Georgia.

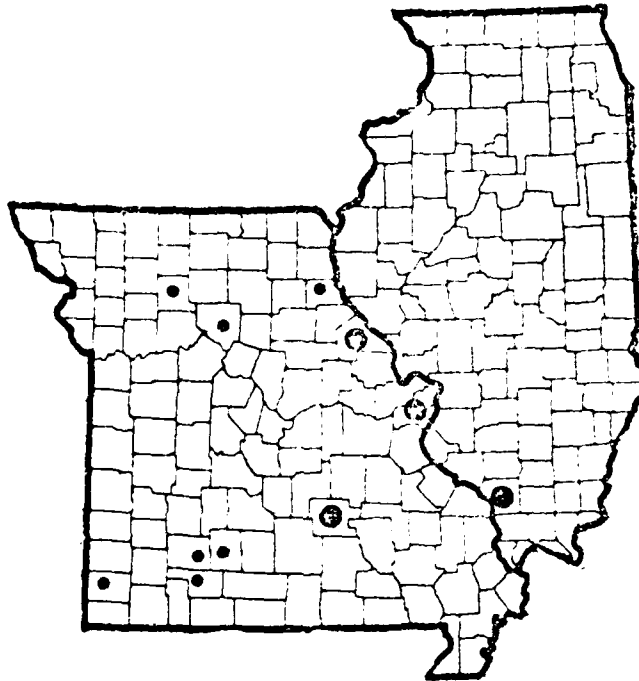
Notes: Originally discovered in flower in Illinois at Lake Murphysboro State Park (Jackson County) on July 22, 1966, by R. H. Mohlenbrock. This species has subsequently been found in Pope County. It is unknown from Missouri.

JACKSON (ILL).

Smilax herbacea L.

Carrion Flower

Classification: Illinois: Considered very rare by
this investigator.



Description: Climbing herb with numerous tendrils. Inflorescence 20- to 120-flowered. Berries dark, blue, glaucous, 7-10 mm in diameter.

Habitat: Moist woodlands.

Range: Southeastern Canada to New York, southwest to Ohio, southern Illinois, Missouri, western Tennessee, eastern Georgia, and South Carolina.

Notes: The only known collection from Illinois is from Lake Murphysboro State Park, May 1, 1960, by R. H. Mohlenbrock 13317.

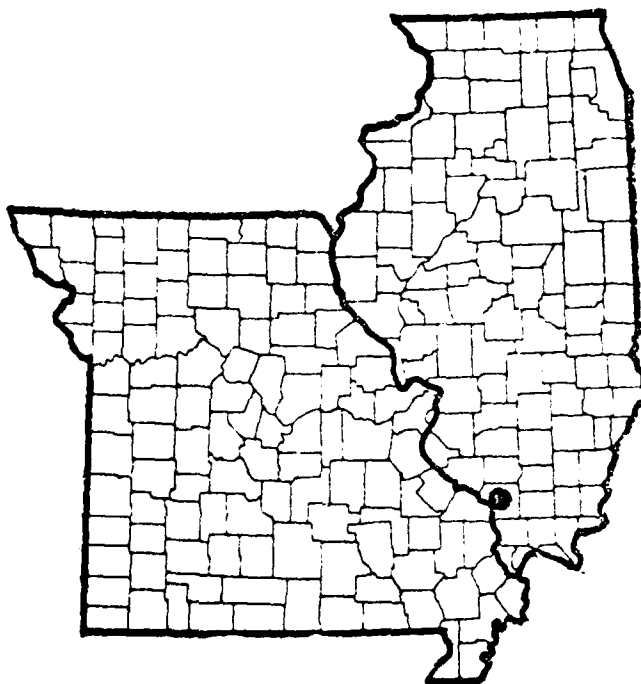
There are several stations for this plant scattered throughout Missouri.

JACKSON (ILL).

Trillium cuneatum Raf.

Appalachian Trillium

Classification: Illinois: Considered very rare by
this investigator.



Description: Stems 35 cm tall, glabrous. Leaves broadly ovate to orbicular, to 12 cm long, to 10 cm broad, mottled with purple. Petals maroon or greenish, erect, scarcely tapering to the base.

Habitat: Rich, moist woodlands.

Range: North Carolina to Illinois, south to Mississippi and Georgia.

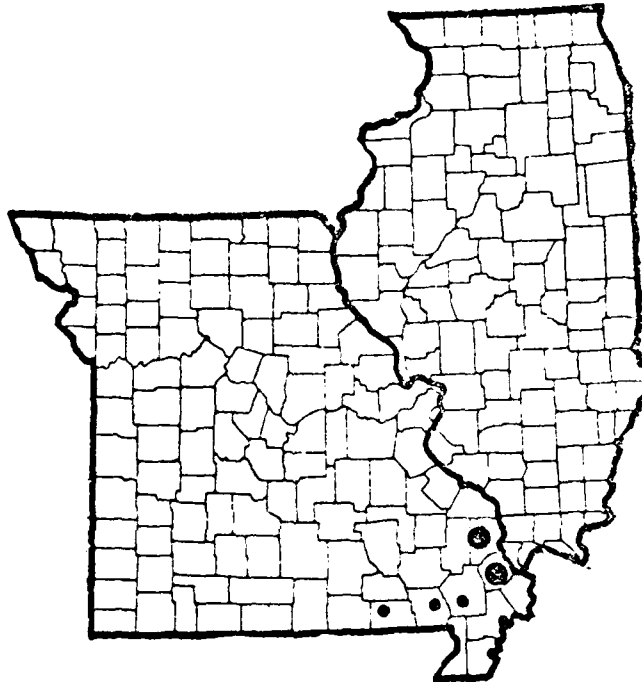
Notes: The only collection from the two-state area is from Giant City State Park, April 28, 1960, by R. H. Mohlenbrock 14214.

CAPE GIRARDEAU, SCOTT (MO).

Thalia dealbata Roscoe

Thalia

Classification: Missouri: Rare.



Description: Plant white-powdery throughout. Stems up to 2 m tall. Leaves ovate-lanceolate, to 1 m long. Flowers purple. Sepals and petals each 3. Fertile stamen 1.

Habitat: Drainage canals, swamps, lakes.

Range: South Carolina to southeastern Missouri, south to Texas and Florida.

Notes: Other Missouri localities for this species are in Butler, Ripley, and Stoddard counties.
This species is unknown from Illinois.

Blue-eyed Grass

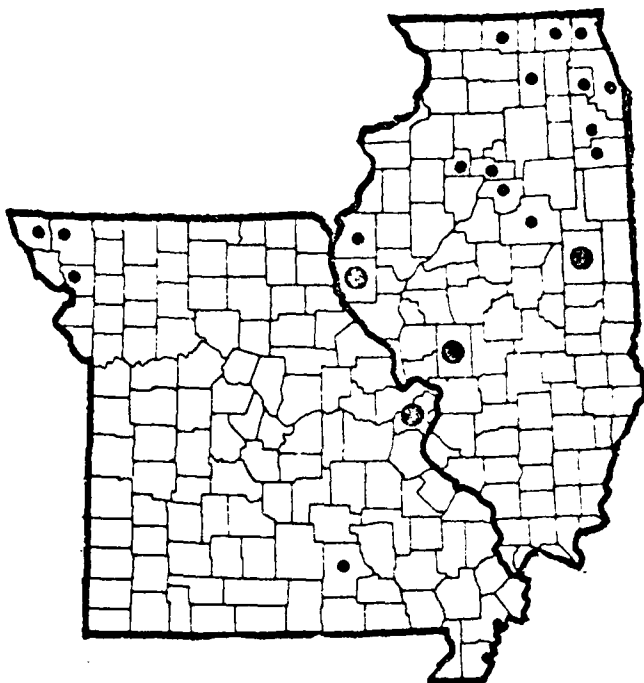
A map of the state of Missouri, showing its county boundaries. The state is divided into numerous counties, each outlined in black. Four specific locations are marked with solid black dots. One dot is located in the northwestern part of the state, in the corner where it meets the Arkansas border. Another dot is in the central part of the state, slightly west of the center. A third dot is in the southeastern part of the state, near the border with Arkansas and Illinois. The fourth dot is in the extreme southeastern corner of the state, near the border with Illinois and Kentucky.

In Illinois, this species is confined to Kankakee County.

White Lady's-slipper Orchid

Classification: Federal: Threatened in Missouri.

Missouri: Rare.



Description: Leaves several, cauline, erect, lanceolate to elliptic. Stem to 40 cm tall, glandular-pubescent. Flower 1, to 6 cm long, greenish-yellow striped with purple. Lip white, striped with purple, to 2.5 cm long.

Habitat: Bog, swamps, and wet prairies.

Range: New York to South Dakota, south to Nebraska,
Missouri, and Pennsylvania.

Notes: The St. Louis County collection was made in St. Louis in May, 1838, by N. Riehl. It is undoubtedly extinct there. Other Missouri counties are Andrew, Atchison, Nodaway, and Shannon.

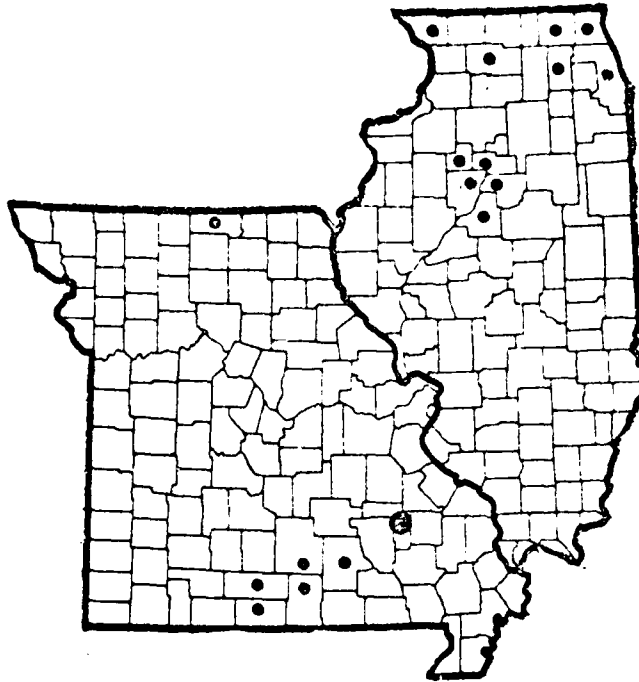
In Illinois, this species is known from 16 counties, including Adams, Champaign, and Macoupin.

IRON (MO).

Cypripedium reginae Walt.

Showy Lady's-slipper Orchid

Classification: Missouri: Rare.



Description: Leaves several, cauline, pubescent on the margins and veins. Stem to 90 cm tall, hirsute. Flowers 1-3, terminal, to 5 cm long, white.

Habitat: Bogs and other low, springy places.

Range: Newfoundland to Manitoba, south to North Dakota, Missouri, and Georgia.

Notes: In addition to Iron County, this species is known from six other counties outside the St. Louis District.

This species is confined to the northern half of the state.

MACON (ILL).

Habenaria blephariglottis (Willd.) Hook.

White Fringed Orchid

Classification: Illinois: Considered very rare by
this investigator and
possibly extinct.



Description: Leaves 1-3, cauline, linear-lanceolate.
Stem to 75 cm tall. Flowers white, up to 11 mm
long, excluding the spur. Spur 15-25 mm long.

Habitat: Low areas.

Range: Newfoundland to Ontario, south to Illinois and
South Carolina.

Notes: The only Illinois collection was made more than
50 years ago.
This species is unknown from Missouri.

IRON (MO).

Habenaria ciliaris (L.) R. Br.

Yellow Fringed Orchid

Classification: Missouri: Rare.



Description: Leaves 1-3, cauline, lanceolate. Flowers orange. Lip broadly oblong, 10-15 mm long, long-fringed. Spur 15-30 mm long.

Habitat: Low ground.

Range: Ontario to Missouri, south to Texas and Florida.

Notes: In addition to the Iron County collection, this orchid is known in Missouri from Ripley and Stoddard counties.

In Illinois, this orchid has been found only in Cook County.

JOHNSON (ILL).

WAYNE (MO).

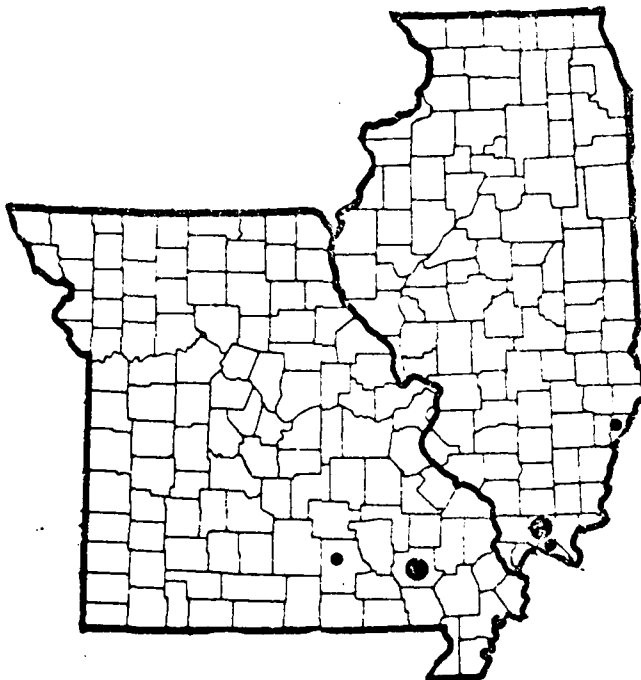
Habenaria flava (L.) R. Br.

Tubercled Orchid

Classification: Federal: Threatened.

Illinois: Considered rare by this investigator.

Missouri: Rare.



Description: Leaves 1-5, cauline, linear-lanceolate to lanceolate. Stem to 60 cm tall. Flowers green or greenish-yellow, fragrant.

Habitat: Low, shaded areas.

Range: Maryland to Missouri, south to Texas and Florida.

Notes: In addition to Johnson County, this orchid is also known in Illinois from Massac and Wabash counties.

In Missouri, this orchid is known also from Shannon County.

This species is known sometimes as Platanthera flava.

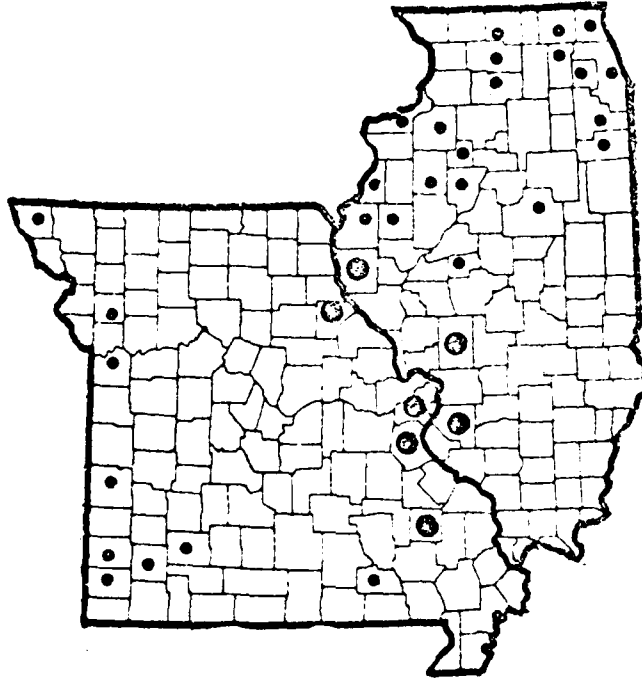
ADAMS, MACOUPIN, ST. CLAIR (ILL).

JEFFERSON, MADISON, RALLS, ST. LOUIS (MO).

Habenaria leucophaea (Nutt.) Gray

White Fringed Orchid

Classification: Federal: Threatened.



Description: Leaves 4-9, cauline, linear-lanceolate to lanceolate. Flowers white.

Habitat: Swampy areas.

Range: Ontario to North Dakota, south to Louisiana, Ohio, and New York.

Notes: Although this species is certainly uncommon in the two-state area, it is known from 27 Illinois counties and 12 Missouri counties.

It is sometimes called Platanthera leucophaea.

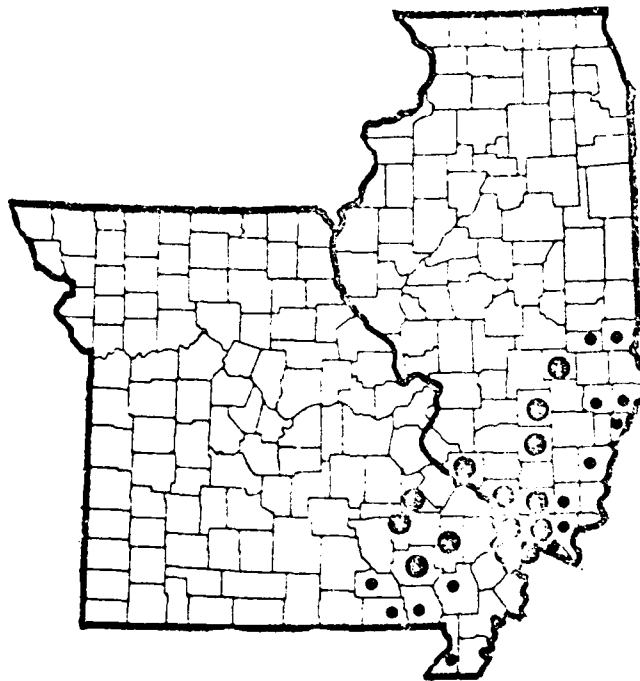
ALEXANDER, EFFINGHAM, FRANKLIN, JACKSON, JEFFERSON, JOHNSON,
PULASKI, RANDOLPH, UNION, WILLIAMSON (ILL).

BOLLINGER, IRON, ST. FRANCOIS, WAYNE (MO).

Habenaria peramoena Gray

Purple Fringeless Orchid

Classification: Federal: Threatened.



Description: Leaves 2-4, cauline, lanceolate. Stem to 80 cm tall, glabrous. Flowers reddish-purple.

Habitat: Low woodlands; wet prairies; swampy meadows.

Range: New Jersey to Missouri, south to Alabama, Tennessee, and South Carolina.

Notes: Although listed as Threatened by the Federal Government (1975), this species is found occasionally in the southern half of Illinois and in the southeastern corner of Missouri.

It is sometimes called Platanthera peramoena.

RANDOLPH (ILL).

BOLLINGER (MO).

Isotria medeoloides (Pursh) Raf.

Small Whorled Pogonia

Classification: Federal: Endangered.

Illinois: Considered very rare by
this investigator.

Missouri: Considered very rare by
this investigator and
probably extinct.



Description: Stem up to 15 cm tall. Leaves 3-6 in a
single whorl beneath the inflorescence. Flower 1,
on an erect peduncle.

Habitat: Rocky hillsides.

Range: Maine to Pennsylvania, south to North Carolina;
Illinois; Missouri.

Isotria medeoloides (Cont'd.)

Notes: This is the rarest orchid in eastern North America. The only Illinois location is in Randolph County where it was collected first in 1974 by L. Mehrhoff.

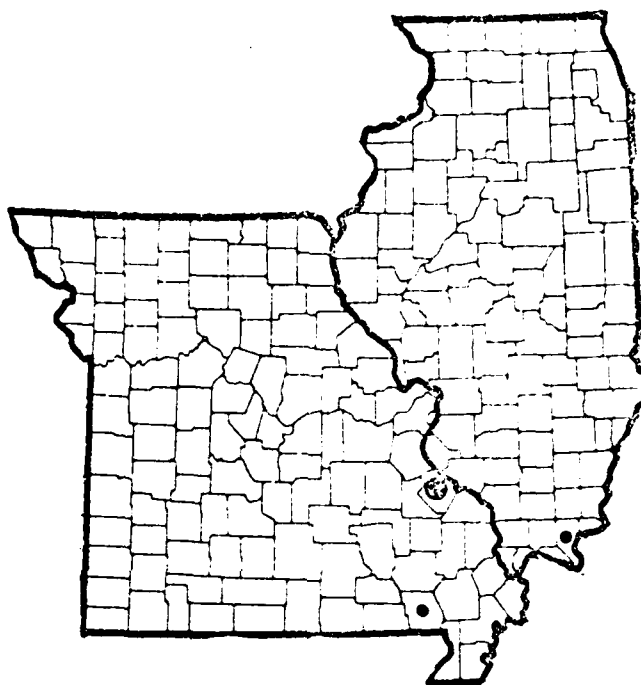
The only Missouri collection was made near Glen Allen in May, 1897, by Colton Russell.

STE. GENEVIEVE (MO).

Isotria verticillata (Willd.) Raf.

Large Whorled Pogonia

Classification: Missouri: Rare.



Description: Stem up to 35 cm tall. Leaves 4-8 in a single whorl beneath the inflorescence. Flower 1, on an erect peduncle, yellow, green, and purple. Lip green, 3-lobed, white.

Habitat: Low woods.

Range: Maine to Michigan, south to Texas and Florida.

Notes: The Ste. Genevieve County discovery was made by O. Petersen along Pickle Creek. It was later collected at the same location on June 7, 1952, by J. A. Steyermark 73313. It is also known in Missouri from Butler County.

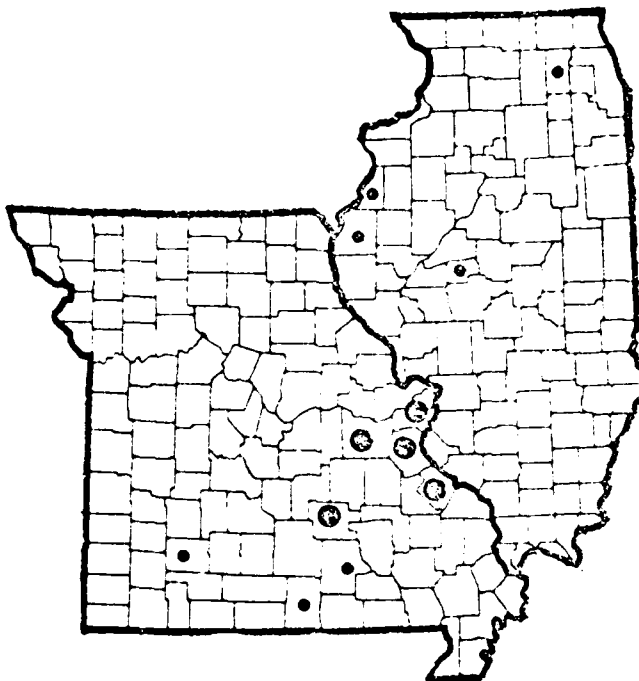
In Illinois, this rare fern is known only from a single collection in Pope County.

DENT, FRANKLIN, JEFFERSON, STE. GENEVIEVE, ST. LOUIS (MO).

Malaxis unifolia Michx.

Adder's Mouth Orchid

Classification: Missouri: Rare.



Description: Leaf 1, borne about half-way up the stem, to 6 cm long. Stem to 25 cm tall. Raceme 5- to 35-flowered. Flowers up to 3.5 mm long, greenish.

Habitat: Dry or moist woodlands.

Range: Newfoundland to Saskatchewan, south to Texas and Florida.

Notes: This species is also known in Missouri from three counties in the Ozarks.

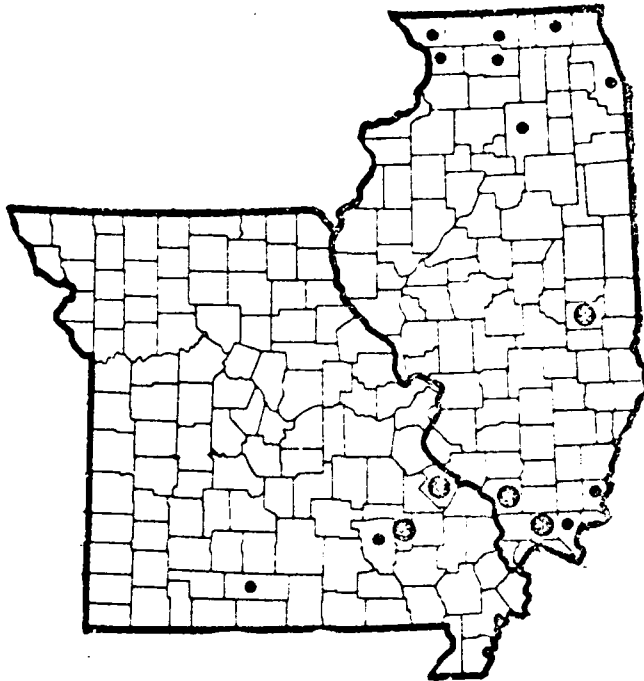
In Illinois, it is confined to the northern half of the state where it is rare.

IRON, STE. GENEVIEVE (MO).

Goodyera pubescens (Willd.) R. Br.

Rattlesnake Plantain Orchid

Classification: Missouri: Rare.



Description: Leaves basal, dark green with conspicuous white venation. Flowering stem to 35 cm tall. Flowers up to 5 mm long, white.

Habitat: Rich, often rocky woods.

Range: Newfoundland to Ontario, south to Missouri, Alabama, and Florida.

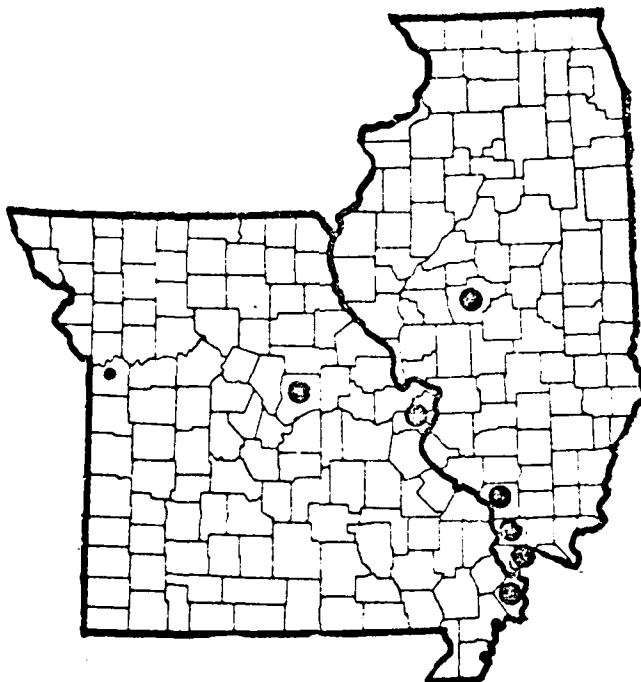
Notes: In addition to the collections made by J. A. Steyermark in Iron and Ste. Genevieve counties, this species is known from Douglas and Reynolds counties. This species is found in several counties throughout Illinois.

CALAWAY, MISSISSIPPI, ST. LOUIS (MO).

Spiranthes ovalis Lindl.

Ladies' Tresses

Classification: Missouri: Rare.



Description: Roots thickened, several. Foliage leaves basal and cauline, oblanceolate. Stem to 35 cm long. Flowers borne in 3 ranks, white.

Habitat: Rich woodlands.

Range: Virginia to Missouri, south to Texas and Florida.

Notes: In addition to the three counties listed above, this species is also known from Jackson County.

In Illinois, this species is uncommon but is known from several counties in the southern half of the state.

COLES (ILL.).

Spiranthes romanzoffiana Cham.

Hooded Ladies'-tresses

Classification: Illinois: Considered rare by this investigator.



Description: Slender plant to 0.5 m tall. Flowers creamy-white, up to 12 mm long, strongly fragrant.

Habitat: Meadows and thickets.

Range: Labrador to Alaska, south to California, Colorado, Illinois, Pennsylvania, and New York.

Notes: This northern species is unknown from Missouri.

JACKSON (ILL.).

Salix X myricoides (Muhl.) Carey

Hybrid Willow

Classification: Illinois: Considered very rare by
this investigator.



Description: Small tree to 10 m. Leaves glaucous beneath, subcordate at base, tapering to a tail-like tip.

Habitat: Moist soil.

Range: Quebec to Wisconsin, south to Illinois, Tennessee, and South Carolina.

Notes: The only collection of this hybrid from the bi-state area was made by R. H. Mohlenbrock.

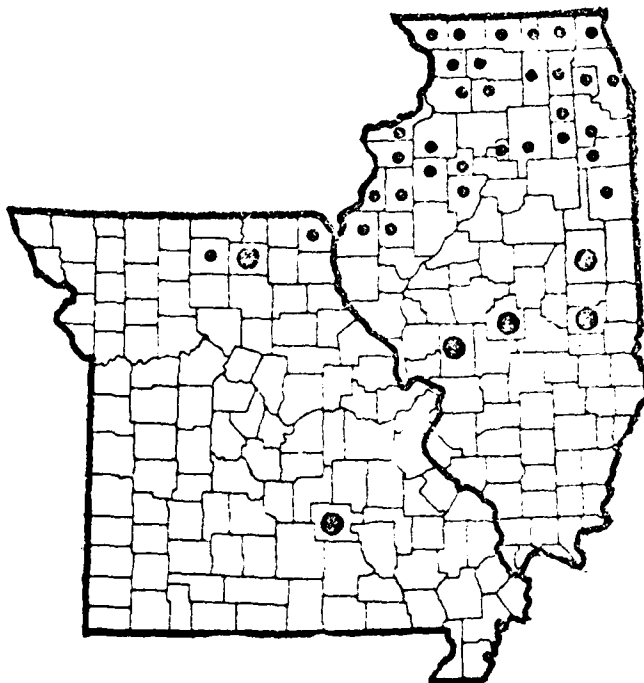
This is a reputed hybrid between S. rigida Muhl. and S. sericea Marsh.

ADAIR, DENT (MO).

Populus tremuloides Michx.

Quaking Aspen

Classification: Missouri: Rare. The Dent County population is known to be extinct.



Description: Tree to 25 m tall. Leaves broadly ovate to orbicular, finely crenulate.

Habitat: Upland woods.

Range: Labrador to Alaska, south to New Mexico, Missouri, and Virginia; Baja California.

Notes: The Dent County plants were found by F. Dunlap 1/4 mile west of Salem on June 16, 1933. Steyermark (1963) reports that these trees died in 1934. Elsewhere in Missouri, this species is known from Adair, Clark, and Sullivan counties.

In Illinois, this species is scattered in the northern half of the state.

UNION (ILL).

Carya pallida (Ashe) Engl. & Graebn.

Pale Hickory

Classification: Illinois: Considered very rare by
this investigator.



Description: Small tree to 15 m tall. Leaves with 5-7 leaflets. Buds yellow-lepidote. Rachis without reddish hairs.

Habitat: Rocky, wooded slopes.

Range: North Carolina to southern Illinois, south to Louisiana and Florida; New Jersey.

Notes: R. H. Mohlenbrock first found this tree in Illinois in 1973.

It is unknown from Missouri.

WILLIAMSON (ILL).

CRAWFORD (MO).

Castanea dentata (Marsh.) Borkh.

American Chestnut

Classification: Illinois: Considered very endangered
by this investigator.

Missouri: Considered very endangered
by this investigator.



Description: Tree to 25 m tall. Leaves alternate,
simple, oblong-lanceolate, sharply serrate.

Habitat: Woods.

Range: Formerly Maine to Ontario, south to Arkansas
and Georgia.

Notes: The chestnut blight has virtually wiped out
this species.

A single tree is known in Illinois from the
Crab Orchard National Wildlife Refuge.

In Missouri, a single tree is in Crawford
County, 2 1/2 miles northeast of Sligo. It also
is known from Howell County.

ALEXANDER (ILL).

Quercus nuttallii E. J. Palmer

Nuttall's Oak

Classification: Illinois: Considered very rare by
this investigator.



Description: Tree to 30 m tall. Leaves alternate,
simple, pinnately lobed. Acorn 20-28 mm long, oblong-
ovoid. Cup enclosing up to 1/2 the acorn.

Habitat: Low woods.

Range: Tennessee across southern Illinois to Oklahoma,
south to Texas and Alabama.

Notes: The only Illinois collection was made at Horse-
shoe Lake in 1974 by J. White.

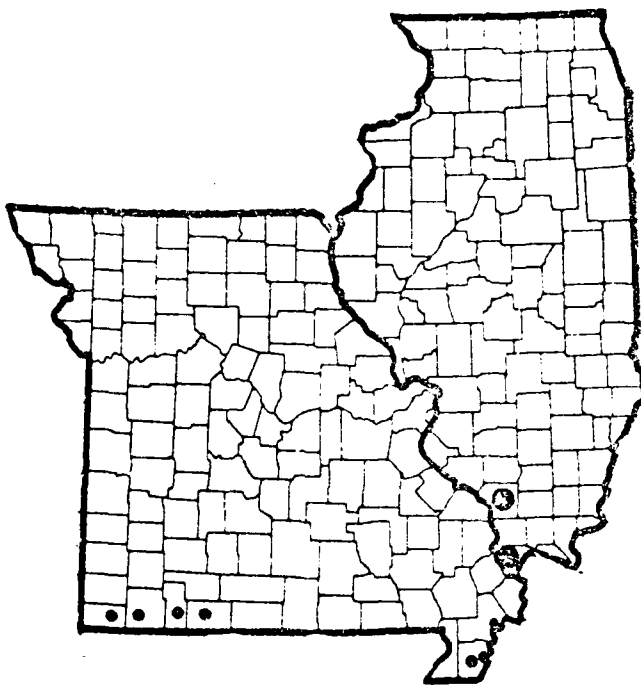
There is a single station in Missouri in New
Madrid County.

ALEXANDER, JACKSON (ILL).

Urtica chamaedryoides Pursh

Weak Nettle

Classification: Illinois: Considered rare by this investigator.



Description: Sparsely glandular-bristly annual. Leaves opposite, crenate-dentate.

Habitat: River banks.

Range: West Virginia to Oklahoma, south to Texas and Florida; Massachusetts; Mexico.

Notes: The first Alexander County collection was made 2 miles south of McClure on April 20, 1932, by Pepon & Barrett. It was also found east of McClure on June 5, 1951, by G. S. Winterringer 7126. The Jackson County collection at Grand Tower was first made on July 4, 1872, by G. H. French.

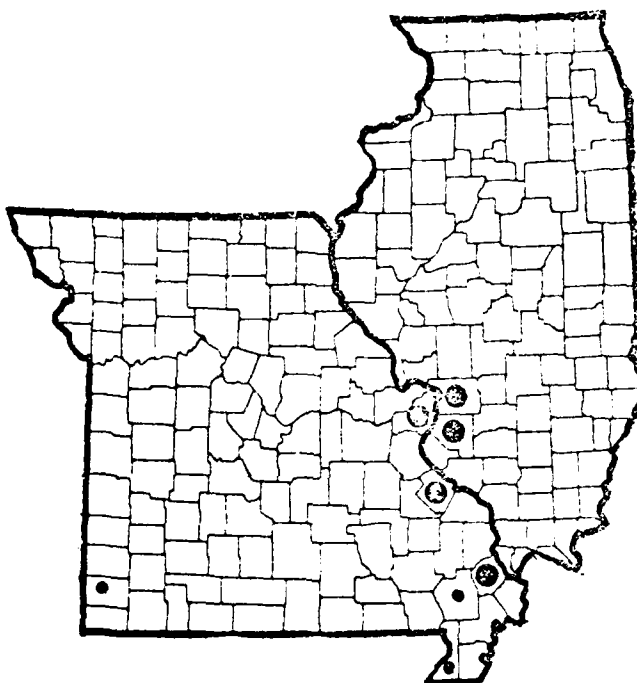
This species is known from 5 counties in the extreme southern part of Missouri.

MADISON, ST. CLAIR (ILL).

Rumex hastatulus Baldw.

Wild Sorrel

Classification: Illinois: Considered very rare
and probably extinct by
this investigator.



Description: Dioecious perennial. Leaves hastate.
Fruiting sepals enlarged.

Habitat: Sandy soil.

Range: Massachusetts to Florida; Illinois to Kansas,
south to Texas.

Notes: Both Illinois records of this species were made
80 or more years ago.

In Missouri, this species is known from six
counties, including Scott, Ste. Genevieve, and St.
Louis counties.

CHAMPAIGN (ILL).

Polygonum achoreum Blake

Knotweed

Classification: Illinois: Considered rare by this investigator.



Description: Annual. Stems erect or ascending. Leaves bluish-green. Ocreae persistent.

Habitat: Waste ground.

Range: Newfoundland to Alaska, south to Colorado, Missouri, and New York.

Notes: The Champaign County collection was made from Urbana on June 12, 1953, by H. E. Ahles 7393. It is also known from Jo Daviess County.

In Missouri, this species is known from Jackson County.

MACON (ILL.).

Polygonum arifolium L. var. pubescens (Keller) Fern.

Tear Thumb

Classification: Illinois: Considered rare and probably extinct by this investigator.



Description: Reclining perennial with recurved prickles. Leaves broadly hastate. Calyx rose or greenish, 4-parted.

Habitat: Wet ground.

Range: New Brunswick to Minnesota, south to Missouri and Georgia.

Notes: This species has not been found in Illinois for nearly a century. It has been known from McHenry and Macon counties.

In Missouri, this species is known only from Stoddard County.

SCOTT (MO).

Polygonum densiflorum Meisn.

Smartweed

Classification: Missouri: Rare.



Description: Perennial. Ocreae without a fringe of bristles. Achenes biconvex.

Habitat: Low woods and swamps.

Range: New Jersey to Missouri, south to Texas and Florida; South America; Central America; West Indies.

Notes: The Scott County collection was August 31, 1894, by H. Eggert. This species is also known from Carter and Dunklin counties, but has not been seen this century.

This species is unknown from Illinois.

ALEXANDER, ST. CLAIR, UNION (ILL).

Polygonum longistylum Small

Smartweed

Classification: Illinois: Considered rare by this investigator.



Description: Stem to 1 m tall. Ocreae not fringed with bristles. Style and stamens conspicuously exerted.

Habitat: Wet ground.

Range: Southern Illinois to Kansas, south to New Mexico and Louisiana.

Notes: This species is unknown from Missouri.

JOHNSON (ILL).

Polygonum prolificum (Small) Robins.

Proliferous Knotweed

Classification: Illinois: Considered very rare by
this investigator.



Description: Glabrous annual. Stem much branched.
Sepals pinkish. Achenes included in the calyx.

Habitat: Waste ground.

Range: Saskatchewan to Washington, south to New Mexico
and Arkansas; Maine to Virginia; Illinois.

Notes: This species is known in Illinois only from
Wildcat Bluff southwest of Vienna where it was
found in 1971 by J. White.

In Missouri, this species is known from Clay
and Jackson counties.

IRON, SCOTT (MO).

Polygonella americana (Fisch. & Mey.) Small

Jointweed

Classification: Missouri: Rare.



Description: Perennial. Leaves linear. Inner sepals winged.

Habitat: Sandy areas.

Range: Southeastern Missouri to Texas and Georgia.

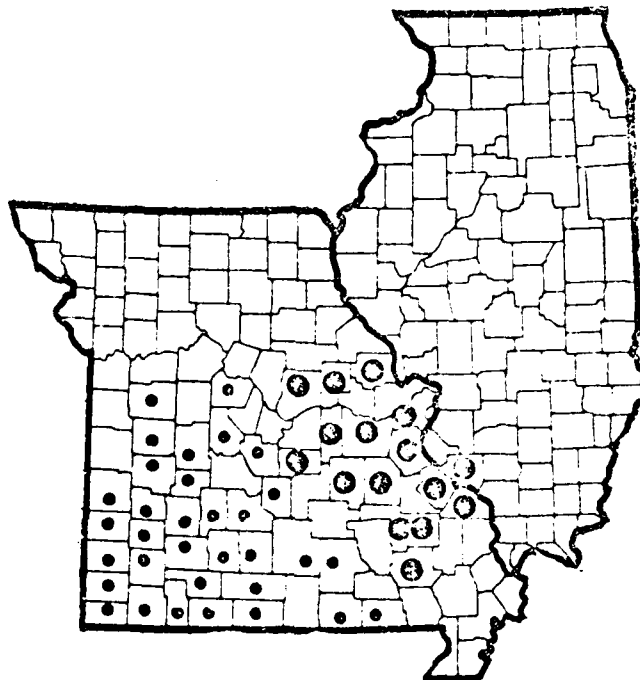
Notes: This species is unknown from Illinois.

RANDOLPH (ILL).

Talinum calycinum Engelm.

Large Flower-of-an-Hour

Classification: Illinois: Considered very rare by
this investigator.



Description: Perennial. Leaves basal, terete, succulent.
Flowers pink, 2-3 cm across. Stamens 12-30.

Habitat: Dry, sandstone blufftops.

Range: Illinois to Kansas, south to Texas and Arkansas.

Notes: The only Illinois collection was made near Leander-
ville on September 25, 1954, by R. H. Mohlenbrock
4911.

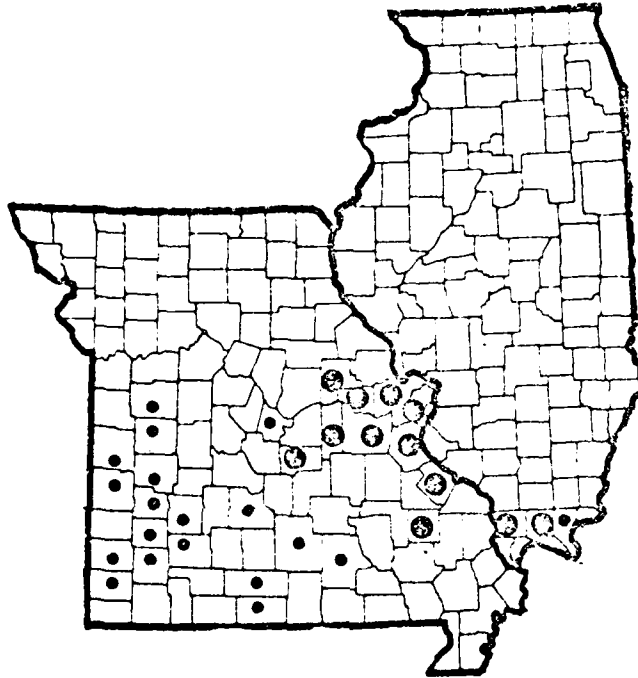
This species occurs throughout the Missouri
Ozarks.

JOHNSON, UNION (ILL).

Talinum parviflorum Nutt.

Small Flower-of-an-Hour

Classification: Illinois: Considered rare by this investigator.



Description: Perennial. Leaves basal, linear, terete, succulent. Flowers pink, 8-10 mm broad. Stamens 5.

Habitat: Dry, sandstone bluffs.

Range: Minnesota to South Dakota, south to Arizona and Texas; Mexico.

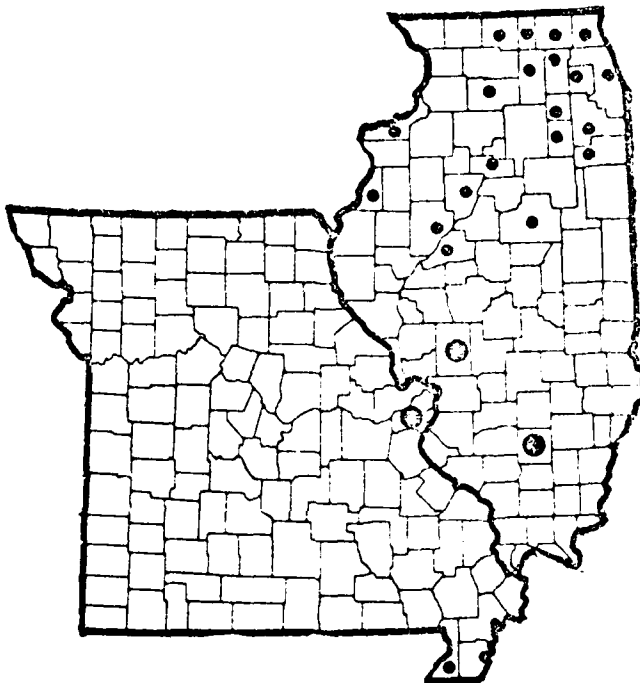
Notes: This species occurs throughout the Missouri Ozarks.

ST. LOUIS (MO).

Nymphaea tuberosa Paine

Tuberous Water Lily

Classification: Missouri: Considered very rare by
this investigator.



Description: Flowers white, not fragrant, up to 25 cm
across. Lower surface of leaf green.

Habitat: Ponds and slow streams.

Range: Quebec to Ontario, south to Nebraska, Arkansas,
and Maryland.

Notes: The St. Louis County specimen was collected in
St. Louis on June 17, 1893, by H. Eggert. There
is also an 1897 collection from Dunklin County.

This species is occasional in the northern
two-thirds of Illinois.

CASS (ILL.).

Trautvetteria caroliniensis (Walt.) Vail

False Bugbane

Classification: Illinois: Considered very rare and probably extinct.



Description: Stout perennial. Leaves palmately lobed.
Sepals 3-5. Petals none.

Habitat: Along streams.

Range: Pennsylvania to Minnesota, south to Oklahoma and Georgia.

Note: The only Illinois collection was made in the 1840's by C. Geyer three miles northeast of Beardstown.

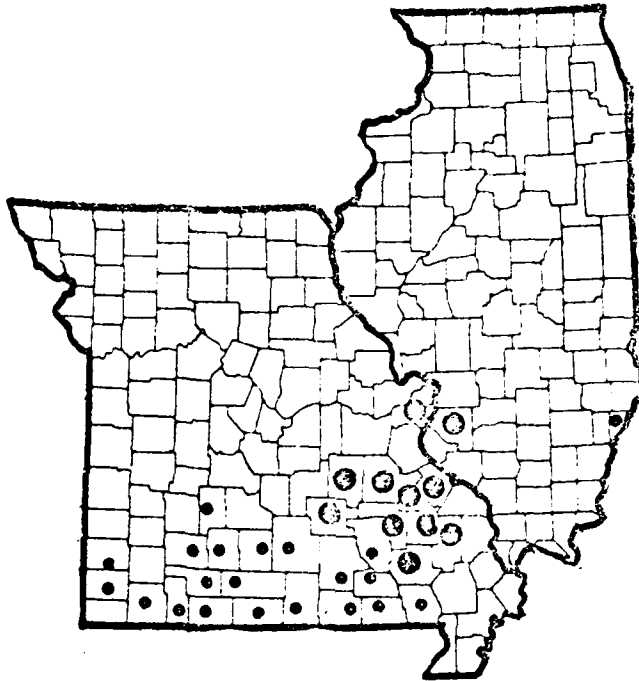
This species is known in Missouri only from Shannon County.

ST. CLAIR (ILL).

Cimicifuga racemosa (L.) Nutt.

Black Cohosh

Classification: Illinois: Considered rare by this investigator.



Description: Leaves ternate, with pinnate divisions.
Sepals 2-5, petaloid. Petals 4-8.

Habitat: Woods.

Range: Ontario to Wisconsin, south to Arkansas and Georgia.

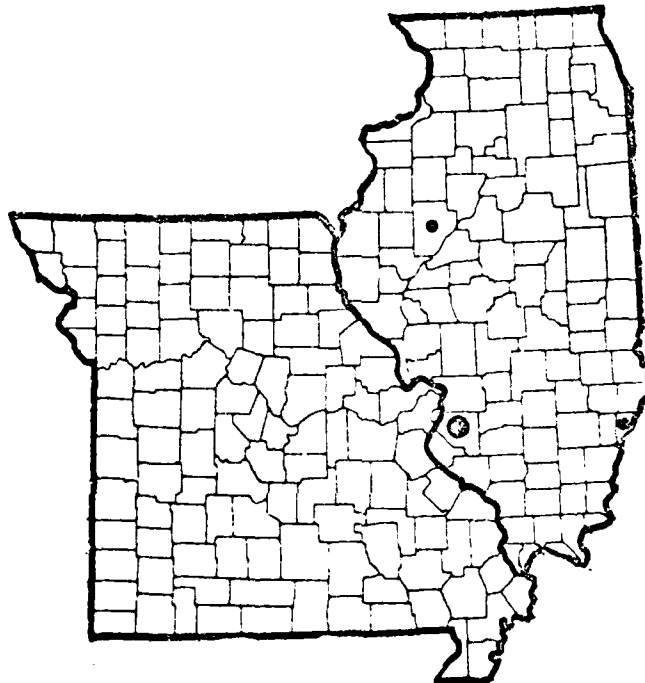
Notes: Both collections from Illinois (St. Clair and Wabash counties) were made during the last century.
This species is scattered throughout the Missouri Ozarks.

ST. CLAIR (ILL.).

Ranunculus ambigens Wats.

Water Plantain Spearwort

Classification: Illinois: Considered rare by this investigator.



Description: Stout, glabrous perennial. Stems hollow.
 Leaves lanceolate. Flowers yellow, 12-16 mm broad.
 Petals 5-7, much exceeding the sepals.

Habitat: Swamps or wet ditches.

Range: Maine to Minnesota, south to Louisiana and Georgia.

Notes: All Illinois collections (Fulton, St. Clair, and
 Wabash counties) were made before 1892.
 This species is unknown from Missouri.

CHAMPAIGN, UNION (ILL.).

Ranunculus carolinianus DC.

Carolina Buttercup

Classification: Illinois: Considered rare by this investigator.



Description: Perennial with fibrous roots. Achene 3.5-5.0 mm long, strongly keeled near the margin.

Habitat: Low woods.

Range: Maryland to Nebraska, south to Texas and Florida.

Notes: This species is known in Missouri from Barry and Howell counties.

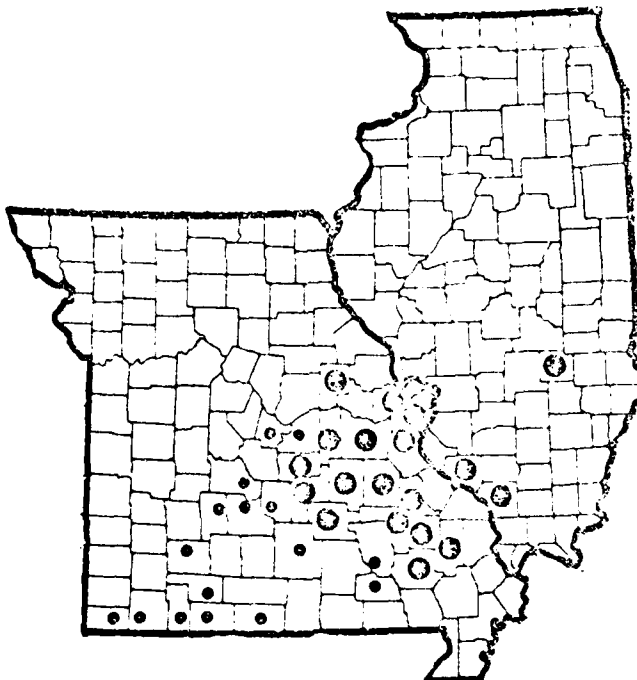
Steiermark (1963) calls this plant R. septentrionalis Poir. var. pterocarpus Benson.

EFFINGHAM, JACKSON, RANDOLPH (ILL).

Ranunculus harveyi (Gray) Britt.

Harvey's Buttercup

Classification: Illinois: Considered rare by this investigator.



Description: Slender perennial. Basal leaves reniform or suborbicular, cordate. Flowers bright yellow, 12-18 mm broad. Petals 4-8, somewhat longer than the sepals.

Habitat: Dry woods.

Range: Southern Illinois to Oklahoma, south to Arkansas and Alabama.

Notes: The first Illinois collection was made in Randolph County along Piney Creek on April 24, 1954, by R. H. Mohlenbrock 2316.

This species is found throughout the Missouri Ozarks.

BOLLINGER, WAYNE (MO).

Clematis viorna L.

Leatherflower

Classification: Missouri: Rare.



Description: Vine. Leaves pinnate. Sepals purple, thick.

Habitat: Rocky woods.

Range: Pennsylvania to Missouri, south to Texas and Georgia.

Notes: This species is also known from Taney County.

In Illinois, this species has been found only in Richland County, in 1910.

MONROE (ILL).

SCOTT (MO).

Corydalis halei (Small) Fern. & Schub.

Corydalis

Classification: Illinois: Considered very rare by
this investigator.

Missouri: Endangered.



Description: Delicate annual. Flowers yellow. Corolla
up to 15 mm long.

Habitat: Low ground.

Range: Virginia to southeastern Missouri, south to Texas
and Florida.

Notes: The only Illinois collection came from near Fults
by J. Ozment.

The Scott County collection came from near
Sikeston, April 6, 1956, by J. A. Steyermark 80855.
It is also known from Stoddard County.

MADISON, STE. GENEVIEVE (MO).

Draba aprica Beadle

Whitlow Grass

Classification: Federal: Endangered.

Missouri: Endangered.



Description: Leaves cauline. Fruits and ovaries minutely hairy.

Habitat: Low woods.

Range: Southeastern Missouri to Arkansas and Georgia.

Notes: The Madison County collection is from St. Francis "shut-ins," 14 miles south of Fredericktown, April 27, 1930, by J. A. Steyermark. The Ste. Genevieve County specimen is from along Jonca Creek, in 1971, by W. C. Taylor. This species is also known from Reynolds and Barry counties.

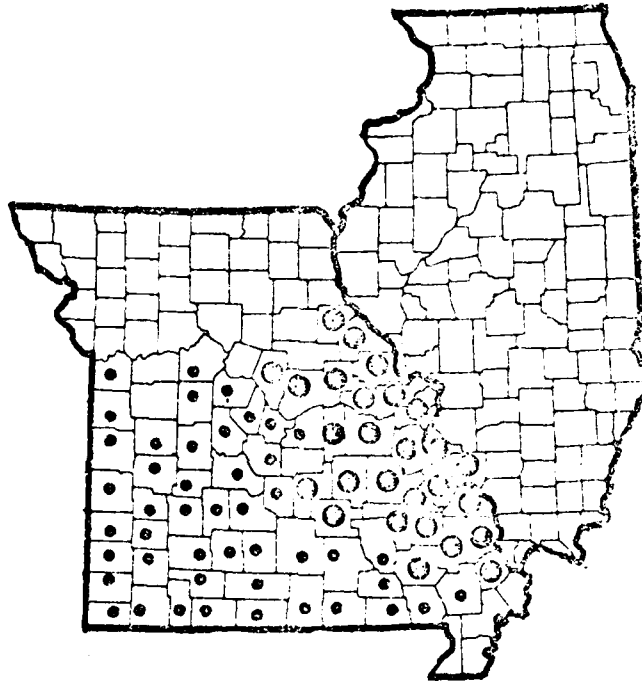
It is unknown from Illinois.

MONROE, RANDOLPH (ILL).

Draba cuneifolia Nutt.

Whitlow Grass

Classification: Illinois: Considered rare by this investigator.



Description: Annual. Leaves mostly basal, stellate-pubescent. Flowers white. Pods linear-oblong, minutely hairy.

Habitat: Limestone ledges.

Range: Kentucky to Colorado, south to Texas and Florida.

Notes: This species is widespread in the Missouri Ozarks.

ST. CLAIR (ILL).

Rorippa truncata (Jepson) Stuckey

Yellow Cress

Classification: Illinois: Considered very rare by
this investigator.



Description: Much branched biennial. Leaves pinnately divided or pinnatifid. Flowers yellow. Pods narrowly oblong, 6-10 mm long.

Habitat: Wet ground.

Range: Ohio and West Virginia to Missouri, south to Texas; British Columbia to California.

Notes: This species is known from four Missouri counties, including St. Louis.

Steiermark (1963) calls this species R. obtusa (Nutt.) Britt.

MADISON, WAYNE (mo)

Heuchera missouriensis Rosendahl

Missouri Alumroot

Classification: Federal: Endangered.

Missouri: Endangered.



Description: Hairy perennial. Flowers covered with glandular hairs. Petals white, about 1.5 mm long.

Habitat: Limestone bluffs.

Range: Missouri.

Notes: The locations of this endemic species are as follows: Madison Co.: along St. Francis River, near Jewett, November 15, 1936, J. A. Steyermark 20980. Wayne Co.: along St. Francis River, 4 miles south of Kime, July 9, 1936, J. A. Steyermark 11542.

IRON (MO).

Heuchera villosa Michx.

Hairy Alumroot

Classification: Missouri: Considered very rare by
this investigator.



Description: Hairy perennial. Leaves shallowly palmately lobed. Flowers not covered with gland-tipped hairs.

Habitat: Limestone bluffs.

Range: West Virginia to Missouri, south to Alabama and Georgia.

Notes: The only locality in the bi-state area is between Annapolis and Sabula, found by A. Chandler in 1928.
This species is unknown from Illinois.

CASS (ILL).

Sanguisorba canadensis L.

American Burnet

Classification: Illinois: Considered rare by this investigator.



Description: Perennial herb to 2 m tall. Leaves pinnately compound, with 7-15 leaflets. Flowers white, in dense spikes. Stamens 4.

Habitat: Moist prairies.

Range: Labrador to Michigan, south to Illinois and Georgia.

Notes: The Cass County collection was made near Beardstown about 125 years ago by S. P. Mead. This species is also known in Illinois from LaSalle and Will counties.

This species is unknown from Missouri.

JACKSON (ILL).

Malus angustifolia (Ait.) Michx.

Narrow-leaved Crab Apple

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 6 m tall. Leaves oblong-lanceolate. Calyx glabrous or nearly so.

Habitat: Low woods.

Range: New Jersey to Missouri, south to Louisiana and Florida.

Notes: The Jackson County collection is from 8 miles southwest of Murphysboro, where it was found by R. H. Mohlenbrock 8810. There is also a collection from Hardin County.

In Missouri, this species is known only from Dunklin County.

JACKSON (ILL).

Prunus mexicana S. Wats.

Big Tree Plum

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 12 m tall. Petiole with 1-2 glands. Flowers appearing before the leaves. Fruits blue or rose, glaucous.

Habitat: Base of limestone cliffs.

Range: Indiana to Iowa, south to Texas and Tennessee.

Notes: The only Illinois collection was made north of the Pine Hills by R. H. Mohlenbrock and K. Stewart, on July 5, 1955.

Although Steyermark (1963) records P. mexicana from most of Missouri, his records actually are for P. americana Marsh. var. lanata Sudw.

ST. CLAIR (ILL).

Crataegus acutifolia Sarg.

Hawthorn

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 8 m tall. Flowers 1.0-1.5 cm across. Stamens 10-15. Fruit subglobose, 0.7-1.0 cm in diameter, with 2-4 nutlets.

Habitat: Low woods.

Range: Indiana; Illinois; Missouri.

Notes: In addition to St. Clair County, this species is known from Richland County.

This species is known from 7 counties in Missouri.

ST. LOUIS (MO).

Crataegus atrorubens Ashe

Hawthorn

Classification: Missouri: Considered rare by this investigator.



Description: Small tree to 10 m tall. Leaves mostly ovate, seldom lobed. Fruits orange-red or crimson, with 4-5 nutlets.

Habitat: Alluvial ground.

Range: Missouri.

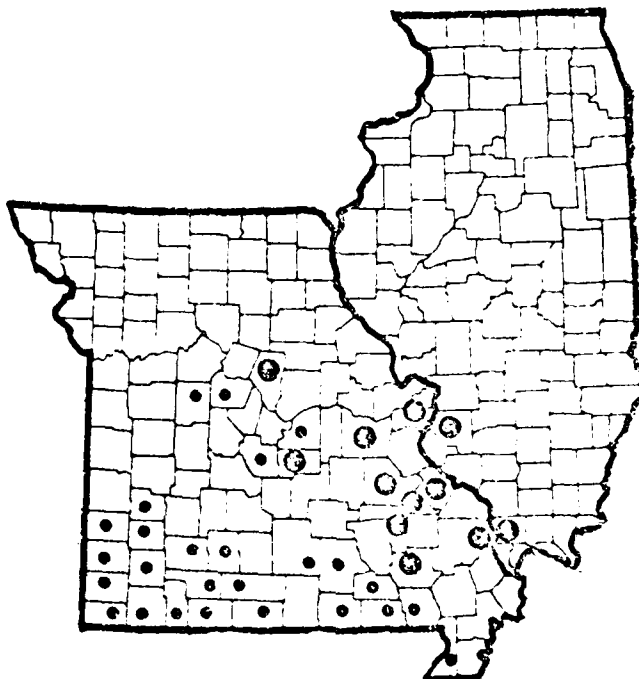
Notes: The only location in the world for this species is from St. Louis County.

ST. CLAIR, UNION (ILL).

Crataegus collina Chapm.

Hawthorn

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 8 m tall. Leaves mostly obovate. Flowers 1.5-2.0 cm across. Stamens 10-15. Fruit subglobose, 0.8-1.0 cm in diameter, dull red, with 3-5 nutlets.

Habitat: Low woods.

Range: Virginia to eastern Kansas, south to Oklahoma and South Carolina.

Notes: The first Illinois collection was made near Otter Pond in Union County by R. H. Mohlenbrock. This species is found throughout the southern half of Missouri.

BOONE (MO)

Crataegus danielsii Palmer

Daniel's Hawthorn

Classification: Missouri: Considered rare by this investigator.



Description: Small tree to 8 m tall. Leaves oblong-elliptic or oblong-obovate, sharply serrate. Fruit 8-12 mm thick, with 2-3 nutlets.

Habitat: Limestone glades and hillsides.

Range: Missouri.

Notes: The only location in the world for this species is in Boone County.

ST. CLAIR (ILL).

Crataegus faxonii Sarg.

Hawthorn

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 4 m tall. Flowers 1.0-1.4 cm in diameter. Stamens 5-10. Fruit nearly globose, 0.8-1.0 cm in diameter, with 3-4 nutlets.

Habitat: Rocky woods and thickets.

Range: Quebec to New York to Wisconsin and Illinois.

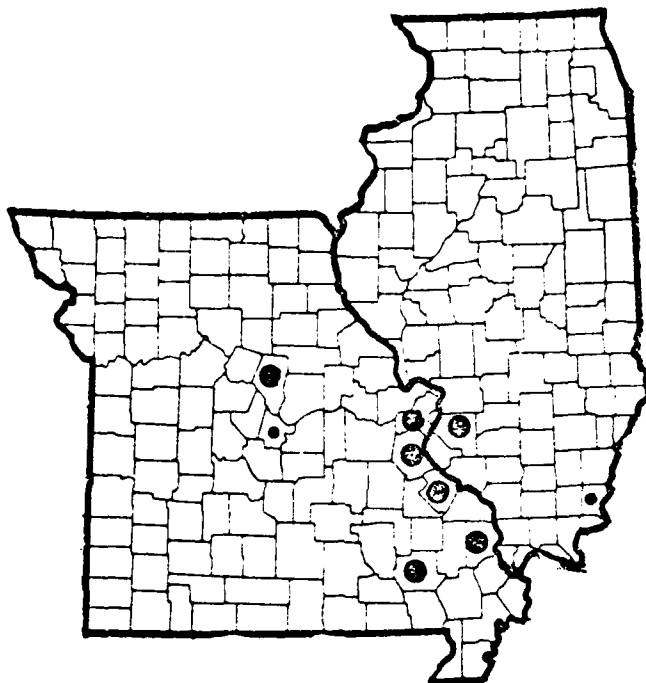
Notes: This species is unknown from Missouri.

ST. CLAIR (ILL).

Crataegus fecunda Sarg.

Hawthorn

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 8 m tall. Leaves obovate or elliptic. Flowers 1.3-1.6 cm across. Stamens 10. Fruit subglobose or short-oblongoid, 1.0-1.4 cm in diameter, green or dull orange-red, with 2-3 nutlets.

Habitat: Moist woods.

Range: Illinois; Missouri.

Notes: In addition to St. Clair County, this species is known from Gallatin County.

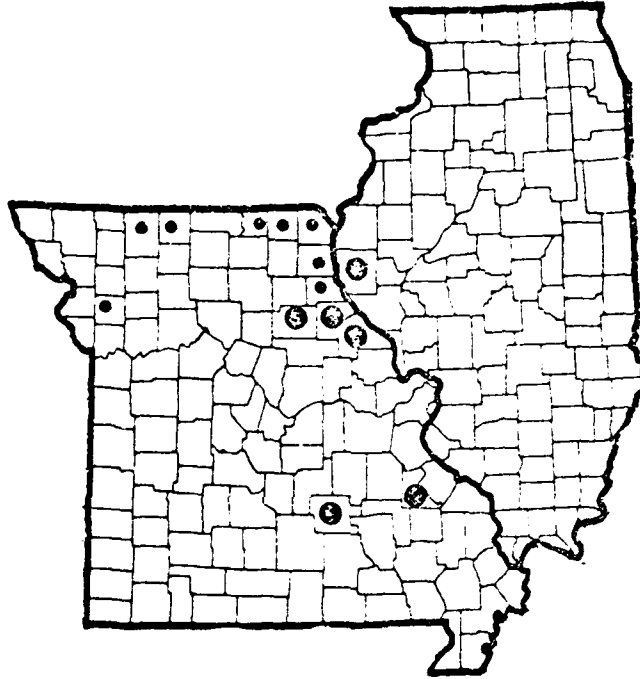
In Missouri, this species is known from seven counties in the eastern half of the state.

ADAMS (ILL).

Crataegus hannibalensis Palmer

Hawthorn

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 8 m tall. Leaves oblong-ovate or elliptic. Flowers 1.4-1.6 cm across. Stamens 10. Fruit short-oblongoid, 7-8 mm in diameter, green or dull red, with 1-3 nutlets.

Habitat: Thickets.

Range: Illinois; Iowa; Missouri.

Notes: This species is known from 13 counties in Missouri.

STE. GENEVIEVE, ST. LOUIS (MO).

Crataegus lettermanii Sarg.

Letterman's Hawthorn

Classification: Missouri: Considered rare by this investigator.



Description: Small tree up to 7 m tall. Leaves ovate or rhombic, sharply serrate. Flowers 1.5-1.8 cm across. Stamens 10-15. Fruit 1.0-1.4 cm in diameter, with 5 nutlets.

Habitat: Alluvial woods.

Range: Missouri.

Notes: The counties listed above, plus Jasper County, are the only ones known for this species in the world.

JACKSON (ILL).

Crataegus marshallii Egglest.

Parsley Hawthorn

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 8 m tall. Leaves broadly ovate. Flowers 1.0-1.5 cm across. Stamens 10. Fruit oblongoid or obovoid, 5-9 mm long, 4-8 mm thick, bright red, with 1-3 nutlets.

Habitat: Swampy woods.

Range: Virginia to southern Missouri, south to Texas and Florida.

Notes: The only known collection in Illinois was made at the Greentree Reservoir near Gorham in 1969 by D. K. Evans.

This species is known from three counties in southeastern Missouri.

ST. CLAIR (ILL).

Crataegus nitida (Engelm.) Sarg.

Shining Hawthorn

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 10 m tall. Flowers 1.5-1.7 cm across. Stamens 20. Fruit subglobose, 0.8-1.0 cm in diameter, orange-red or crimson, with 4-5 nutlets.

Habitat: Low woods.

Range: Ohio to Missouri, south to Arkansas.

Notes: The St. Clair County collection (E. St. Louis, June 10, 1881, G. W. Letterman) is the type for this species. This species is also known in Illinois from Gallatin and Henderson counties.

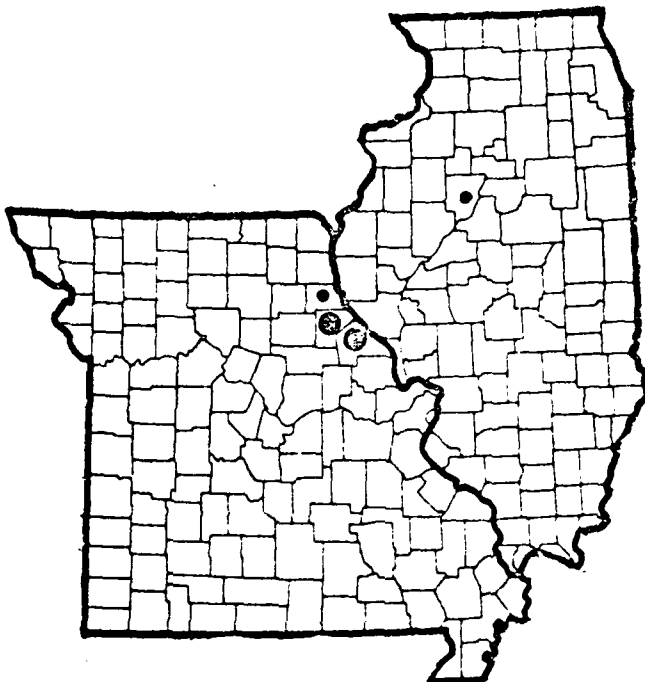
There are six counties in Missouri where this species has been found.

PIKE, RALLS (MO).

Crataegus permixta Palmer

Hawthorn

Classification: Illinois: Considered rare by this investigator.



Description: Small tree to 5 m tall. Leaves oblong-ovovate or elliptic. Flowers 1.0-1.4 cm wide. Stamens about 20. Fruit 0.8-1.2 cm thick, dark orange-red, with 2-3 nutlets.

Habitat: Thickets; open woods.

Range: Illinois; Missouri.

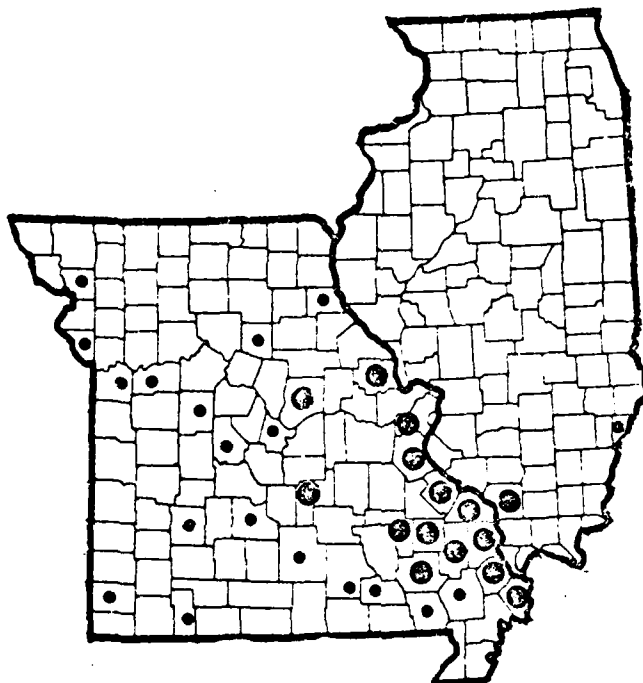
Notes: The two Missouri counties listed above, along with Marion County, Missouri, Peoria County, Illinois, are the only localities for this species in the world.

JACKSON (ILL).

Rubus alumnus Bailey

Blackberry

Classification: Illinois: Considered rare by this investigator.



Description: Prickly arching shrub. Pedicels and peduncles with stipitate glands. Inflorescence about as broad as long.

Habitat: Along railroads; in woods.

Range: Quebec to Minnesota, south to Missouri and Kentucky.

Notes: The Jackson County collection was made in Carbondale by J. R. Swayne 62. This species is also known in Illinois from Wabash County.

This species is rather common throughout Missouri.

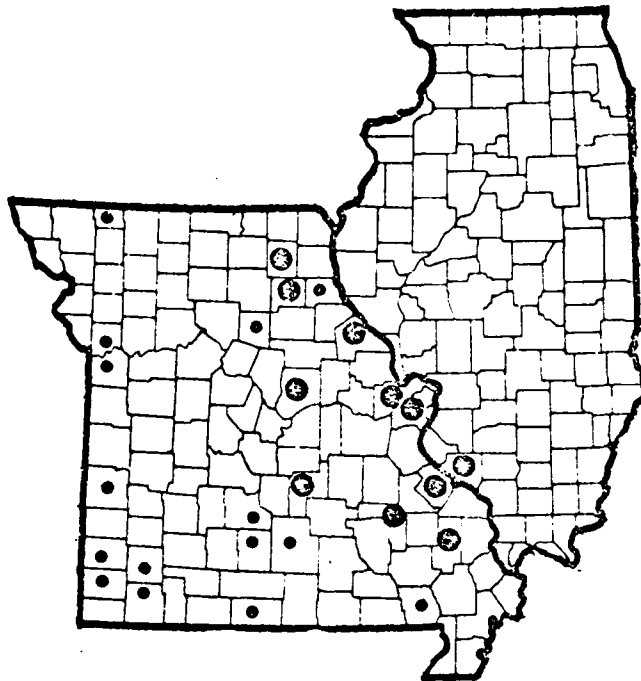
Steiermark (1963) calls this species R. orarius Blanch.

RANDOLPH (ILL).

Rubus enslenii Tratt.

Arching Dewberry

Classification: Illinois: Considered very rare by
this investigator.



Description: Arching, prickly shrub. Leaves glabrous beneath, except for the pilose veins. Flower solitary.

Habitat: Rocky woods.

Range: Massachusetts to Wisconsin, south to Mississippi and Alabama.

Notes: The only Illinois collection was made along Piney Creek by R. H. Mohlenbrock and J. W. Voigt (2470) on May 22, 1954.

This species is scattered throughout Missouri.

LINCOLN (MO).

Rubus missouricus Bailey

Prickly Groundberry

Classification: Federal: Threatened.

Missouri: Endangered.



Description: Prickly arching shrubs. Leaflets 5, acuminate. Inflorescence broader than long.

Habitat: Prairies; thickets; open ground.

Range: Missouri.

Notes: The Lincoln County specimen was collected at Silex by Davis. This species is also known from Jackson and Stone counties.

ST. CLAIR (ILL).

Agrimonia microcarpa Wallr.

Agrimony

Classification: Illinois: Considered very rare
and probably extinct
by this investigator.



Description: Slender perennial. Racemes and leaves
softly pubescent. Roots tuberous. Leaflets 3-5.

Habitat: Dry woods.

Range: Pennsylvania and Maryland to Illinois, south to
Texas and Florida.

Notes: The only collection known from the two-state
area is near Cahokia in 1877 by H. Eggert.

JOHNSON, ST. CLAIR (ILL).

Potentilla millegrana Engelm.

Cinquefoil

Classification: Illinois: Considered rare by this investigator.



Description: Annual. Leaves 3-foliolate, except the uppermost. Leaflets oblong. Flowers yellow, up to 4 mm across. Stamens about 10.

Habitat: Moist soil.

Range: Minnesota to Manitoba, south to New Mexico and Illinois; Washington to California.

Notes: The St. Clair County collection was made on June 14, 1877, by H. Eggert.

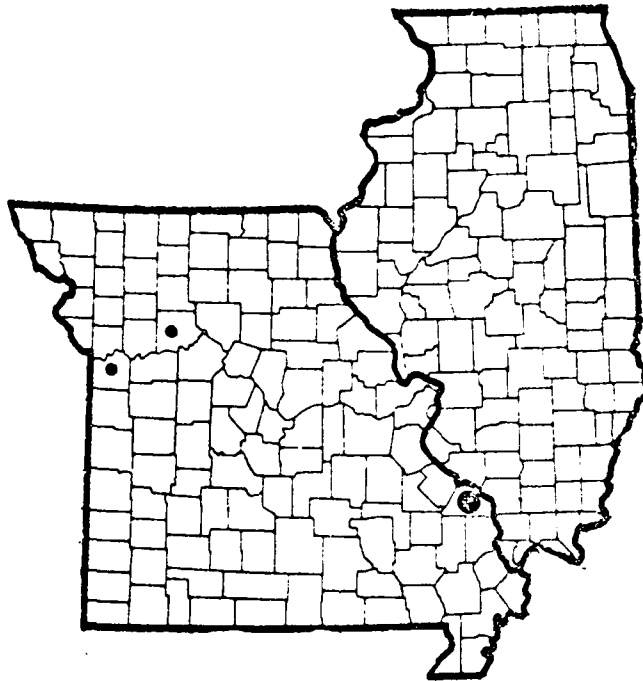
This species is unknown from Missouri.

PERRY (MO).

Potentilla nicollettii (S. Wats.) Sheldon

Cinquefoil

Classification: Missouri: Status Undetermined, but
considered rare by this
investigator.



Description: Annual. Lower leaves pinnately compound, with 5-7 leaflets. Middle and upper leaves digitately 3-foliolate. Flowers yellow. Petals 2-5 mm long.

Habitat: Mud flats; sandy ground.

Range: Minnesota to North Dakota, south to Kansas and Missouri.

Notes: In addition to the Perry County location, this species is known in Missouri from Carroll and Jackson counties.

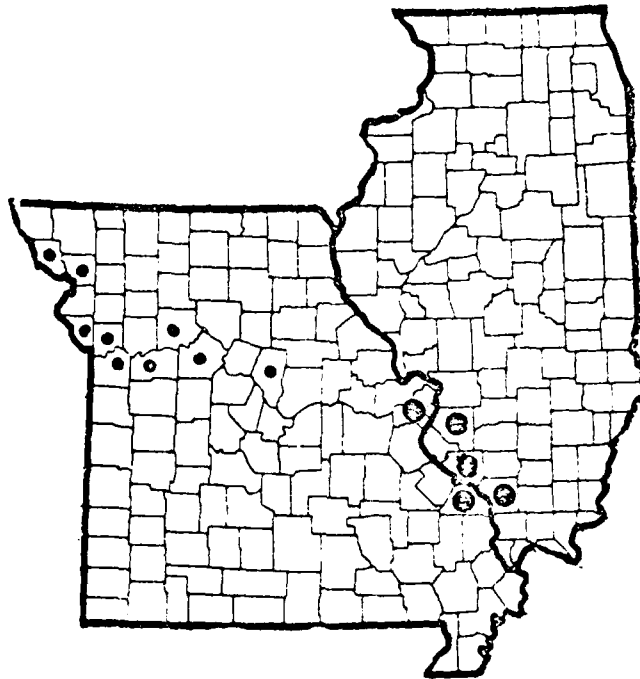
This species is unknown from Illinois.

JACKSON, RANDOLPH, ST. CLAIR (ILL).

Potentilla paradoxa Nutt.

Bushy Cinquefoil

Classification: Illinois: Considered rare by this investigator.



Description: Pubescent annual. Lowest leaves pinnately compound, with 7-11 leaflets. Leaflets obovate or oval. Flowers yellow, up to 1 cm across. Stamens 20.

Habitat: Sandy banks.

Range: Ontario to North Dakota, south to New Mexico, Kansas, Missouri, Ohio, and Pennsylvania; Utah.

Notes: The first Illinois collection was made in St. Clair County by F. Brendel about one century ago.
This species is known from 11 counties in Missouri.

ALEXANDER (ILL.).

Cladrastis lutea (Michx.) K. Koch

Yellow-wood

Classification: Illinois: Considered very rare by
this investigator.



Description: Tree to 20 m tall. Leaves pinnately compound, with 5-11 leaflets. Corolla white, 2.0-2.5 mm long.

Habitat: Rich woods.

Range: North Carolina to Missouri, south to Alabama and Georgia.

Notes: The Alexander County location was first made near Olive Branch on September 19, 1928, by R. B. Miller. This species has also been found in Gallatin County.

This species is confined in Missouri to 3 southwestern counties.

ALEXANDER, PULASKI (ILL).

Sesbania exaltata (Raf.) Cory

Sesbania

Classification: Illinois: Considered rare by this investigator.



Description: Annual to 4 m tall. Leaves pinnate, with 10-35 pairs of leaflets. Corolla yellowish, purple spotted.

Habitat: Low ground.

Range: Illinois to Oklahoma, south to Texas and Alabama.

Notes: The first collection from Illinois was made at Mound City, Pulaski County, on August 29, 1952, by F. B. Buser 1614.

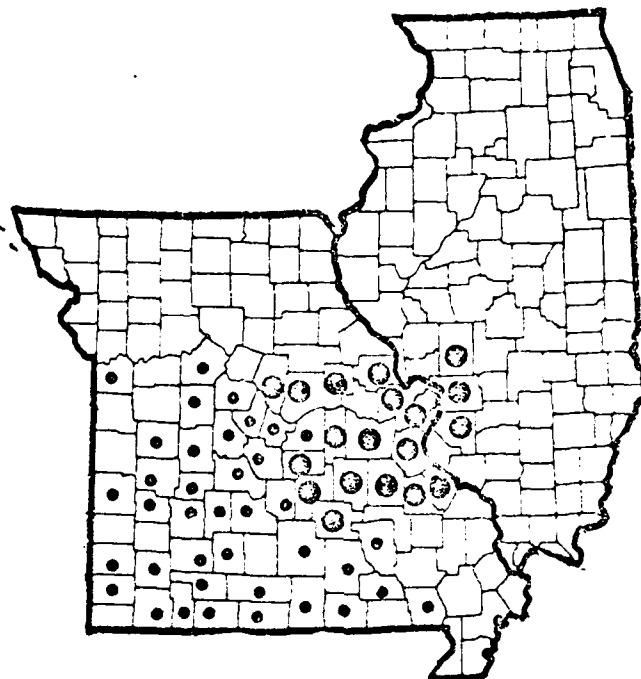
This species is scattered in Missouri.

MACOUPIN, MADISON, ST. CLAIR (ILL).

Astragalus trichocalyx Nutt.

Ground Plum

Classification: Illinois: Considered rare by this investigator.



Description: Perennial herb. Leaves pinnate, with 17-33 leaflets. Flowers yellowish-white, 1.8-2.5 cm long. Legumes thick, globose, 2.0-2.5 cm in diameter.

Habitat: Prairies; rocky woods.

Range: Illinois and Missouri, south to Texas and Louisiana.

Notes: This species is found over much of the Missouri Ozarks.

Steysmark (1963) calls this plant A. mexicanus A. DC. var. trichocalyx (Nutt.) Fern.

UNION (ILL).

Apios priceana Robins.

Price's Ground-nut

Classification: Federal: Threatened.

Illinois: Considered very rare and possibly extinct in Illinois.



Description: Twining perennial from a very large tuber.
Leaflets 3-9. Corolla greenish-white, tinged with
rose. Legumes linear, 9-12 cm long.

Habitat: Rocky woods.

Range: Illinois; Kentucky; Tennessee.

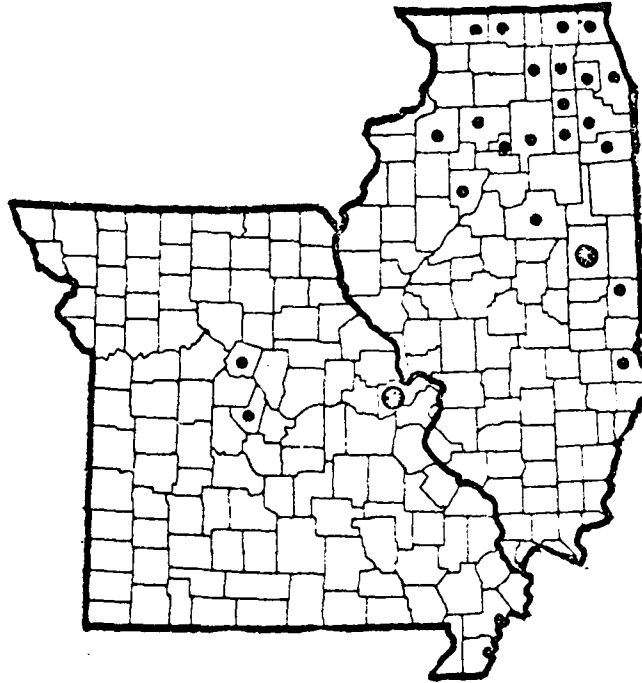
Notes: The only collection of the bi-state area came
from Wolf Lake on September 8, 1941, by G. D. Fuller
664.

ST. CHARLES (MO).

Floerkea proserpinacoides Willd.

False Mermaid

Classification: Missouri: Endangered.



Description: Branching, weak annual. Leaves pinnate, with 3-5 leaflets. Flower solitary, white. Petals 3.

Habitat: Alluvial woods.

Range: Nova Scotia to Ontario and North Dakota, south to Missouri, Tennessee, and Virginia.

Notes: The St. Charles County collection was made at St. Charles by Egeling. It is also known in Missouri from Howard and Moniteau counties.

In Illinois, this species is scattered in the northern half of the state.

MADISON (MO).

Vitis rotundifolia Michx.

Muscadine

Classification: Rare.



Description: Vine with tendrils. Leaves nearly orbicular. Berries few, purple, up to 2 cm in diameter.

Habitat: Low wet woods.

Range: Delaware to Indiana and Oklahoma, south to Texas and Florida.

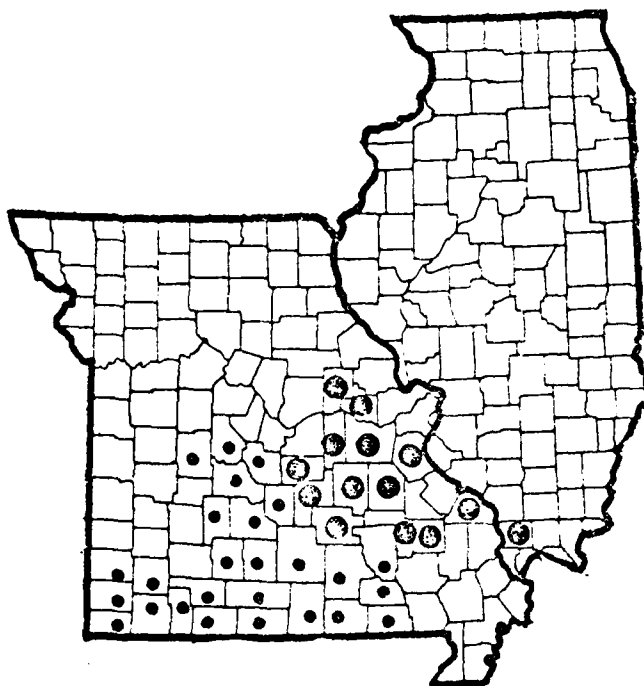
Notes: This species is also known in Missouri from Dunklin and Pemiscot counties.

UNION (ILL).

Vitis rupestris Scheele

River Bark Grape

Classification: Illinois: Considered very rare by
this investigator.



Description: Vine with forked tendrils. Leaves pale green, shining, sharply toothed. Berries black, up to 8 mm in diameter.

Habitat: Rocky banks.

Range: Tennessee to Illinois and Oklahoma, south to Arkansas.

Notes: This species is found throughout the Missouri Ozarks.

MISSISSIPPI, SCOTT (MO).

Rhus toxicodendron L.

Poison Oak

Classification: Missouri: Rare.



Description: Low-growing shrub. Leaves 3-foliolate, velvety-pubescent. Fruit pubescent and slightly warty.

Habitat: Limestone glades; rocky woods.

Range: New Jersey to Oklahoma, south to Texas and Florida.

Notes: This species is also known from Ozark County, Missouri.

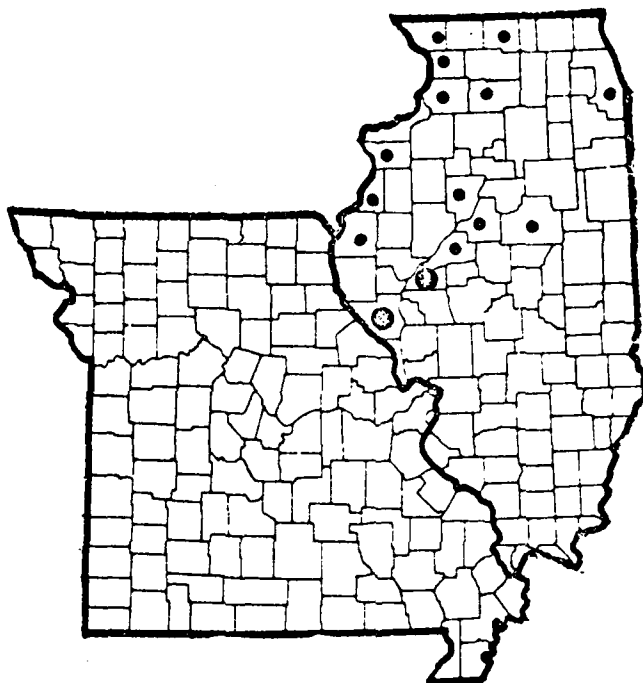
It is unknown from Illinois.

CASS, PIKE (ILL).

Rhus trilobata Nutt. var. arenaria (Greene) Barkley

Fragrant Sumac

Classification: Federal: Threatened.



Description: Shrub to 1 m tall. Leaflets 3, velvety-pubescent beneath. Flowers appearing when the leaves are partly grown.

Habitat: Sandy banks and dunes.

Range: Ohio; Indiana; Wisconsin; Illinois.

Notes: This plant is unknown from Missouri.

Mohlenbrock (1975) calls this plant R. aromatica Ait. var. arenaria (Greene) Fern.

ST. CLAIR (ILL).

Bergia texana (Hook.) Seubert

Bergia

Classification: Illinois: Considered very rare and probably extinct by this investigator.



Description: Much branched herb to 20 cm tall. Leaves opposite, spatulate, serrate, to 3 cm long. Flowers 2.5-3.0 mm broad, axillary. Petals 5.

Habitat: Wet ground.

Range: Illinois to South Dakota, south to Texas and Arkansas; Washington to California and Nevada.

Notes: There have been two collections in St. Clair County, one in 1874 and one in 1878.

A specimen from Jackson County, Missouri, was made in 1897.

SANGAMON (ILL).

Elatine brachysperma Gray

Waterwort

Classification: Illinois: Considered very rare and probably extinct by this investigator.



Description: Tiny terrestrial or submerged herb. Leaves oblong, opposite, 4-6 mm long. Flowers sessile, minute, axillary. Petals 2.

Habitat: Shallow water.

Range: Texas to Arizona; Oregon to California; Illinois.

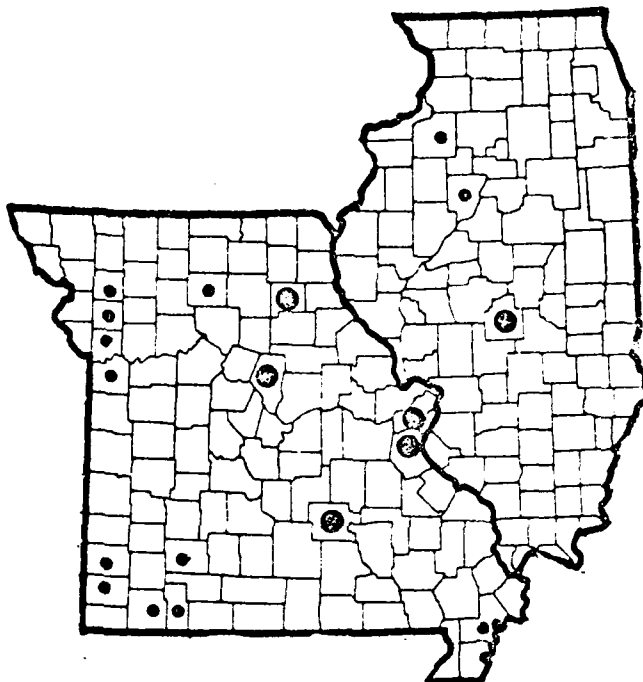
Notes: The Sangamon County collection was made at Springfield by M. S. Bebb (830) over 100 years ago. A collection from Menard County was made in 1860. This species is unknown from Missouri.

CHRISTIAN (ILL).

Callirhoe alcaeoides (Michx.) Gray

Poppy Mallow

Classification: Illinois: Considered rare by this investigator.



Description: Perennial to 0.6 m tall. Basal leaves triangular, palmately cleft. Flowers up to 2.2 cm across, pink or white.

Habitat: Prairies; open places.

Range: The Christian County collection was made northeast of Taylorville on June 15, 1899, by W. E. Andrews. This species is also known in Illinois from Henry and Peoria counties.

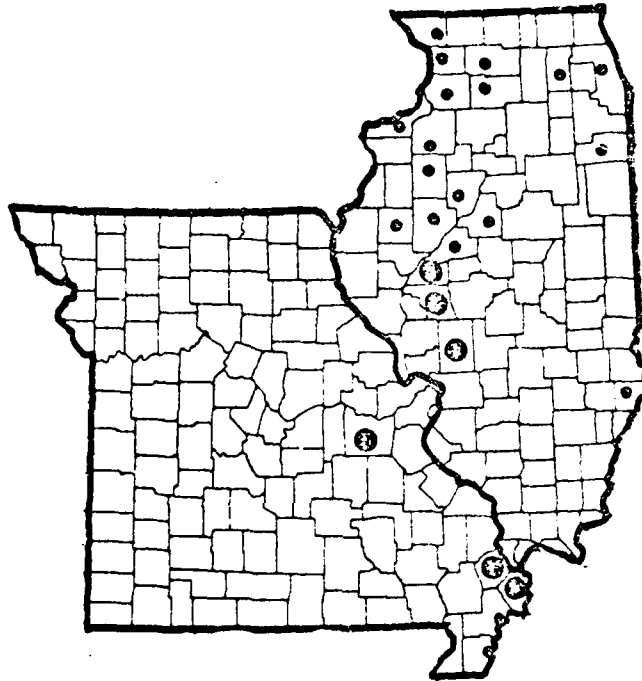
This species is scattered throughout Missouri.

FRANKLIN, MISSISSIPPI, SCOTT (mo)

Callirhoe triangulata (Leavenw.) Gray

Clustered Poppy Mallow

Classification: Missouri: Rare.



Description: Perennial to 0.75 m tall. Leaves triangular-hastate. Flowers up to 4.5 cm across, deep purple.

Habitat: Sandy prairies; glades.

Range: North Carolina to Wisconsin and Nebraska, south to Missouri and Alabama.

Notes: This species is scattered throughout the northern half of Illinois.

ALEXANDER (ILL).

SCOTT (MO).

Sida elliotii Torr. & Gray

Elliott's Sida

Classification: Illinois: Considered very rare by
this investigator.

Missouri: Endangered.



Description: Perennial to 1.3 m tall. Leaves linear to linear-lanceolate. Flowers axillary, yellow, up to 2.5 cm long.

Habitat: Dry soil.

Range: South Carolina to southeastern Missouri, south to Alabama and Florida.

Notes: The only Illinois collection was made north of Cairo by R. H. Mohlenbrock.

This species is also known in Missouri from Dunklin and Stoddard counties.

STE. GENEVIEVE (MO).

Viola pallens (Banks) Brainerd

Smooth White Violet

Classification: Missouri: Rare.



Description: Leaves basal, glabrous on both sides.
 Flowers white. Lateral petals with a tuft of
 hairs.

Habitat: Moist, rocky woods.

Range: Labrador to Alaska, south to Colorado, Missouri,
 Alabama, and South Carolina.

Notes: This species is known from several counties in
 Ste. Genevieve County. The first collection was
 from 5 miles northeast of Pickle on May 3, 1931, by
 J. A. Steyermark 464.

This species is confined in Illinois to the
 northernmost counties.

Mohlenbrock (1975) calls this plant V. maclos-
keyi Lloyd ssp. pallens (Banks) M. S. Baker.

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ARMY ENGINEER DISTRICT ST LOUIS MO

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AN INVENTORY OF RARE AND ENDANGERED PLANT SPECIES FOUND IN THE --ETC(U)

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UNION (ILL).

MISSISSIPPI, STE. GENEVIEVE, WAYNE (MO).

Ilex opaca Ait.

American Holly

Classification: Illinois: Considered very rare by
this investigator.

Missouri: Endangered.



Description: Evergreen tree to 15 m tall. Leaves spinose-dentate. Flowers polygamous. Drupe globose, red, up to 10 mm in diameter.

Habitat: Sandy woods.

Range: Massachusetts to Oklahoma, south to Texas and Florida.

Notes: The only Illinois collection was made at Ram-barger Hollow near Jonesboro by L. Minckler.

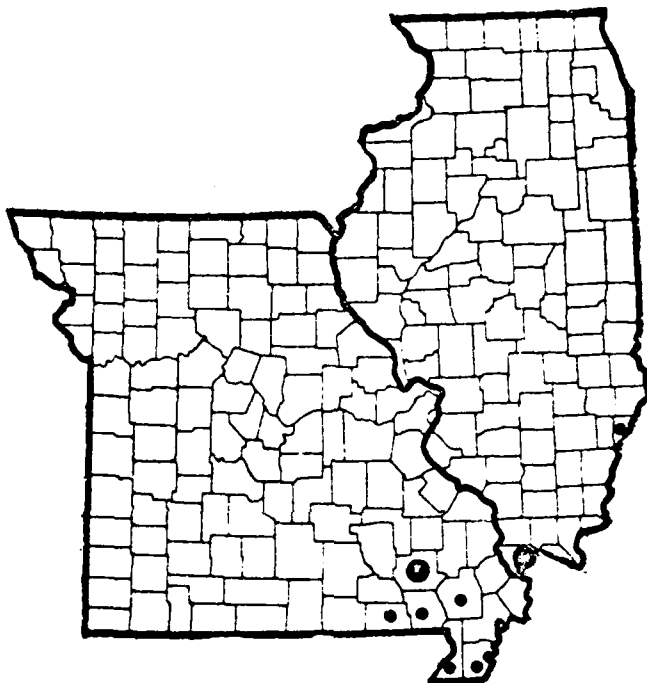
The three counties listed above for Missouri were reported by Bush, but Steyermark (1963) considers them unauthenticated. This species is definitely known in Missouri, however, from Dunklin and Stoddard counties.

PULASKI (ILL).

Euonymus americanus L.

Strawberry Bush

Classification: Illinois: Considered rare by this investigator.



Description: Shrub to 2.5 m tall. Stems 4-angled. Leaves opposite, crenulate. Flowers greenish, up to 1.4 cm across. Capsule "strawberry-like."

Habitat: Low woods.

Range: New York to Oklahoma, south to Texas and Florida.

Notes: The first collection from Pulaski County was made 2 miles west of Pulaski on September 24, 1931, by H. S. Pepoon & E. G. Barrett 505. It is also known from Wabash County.

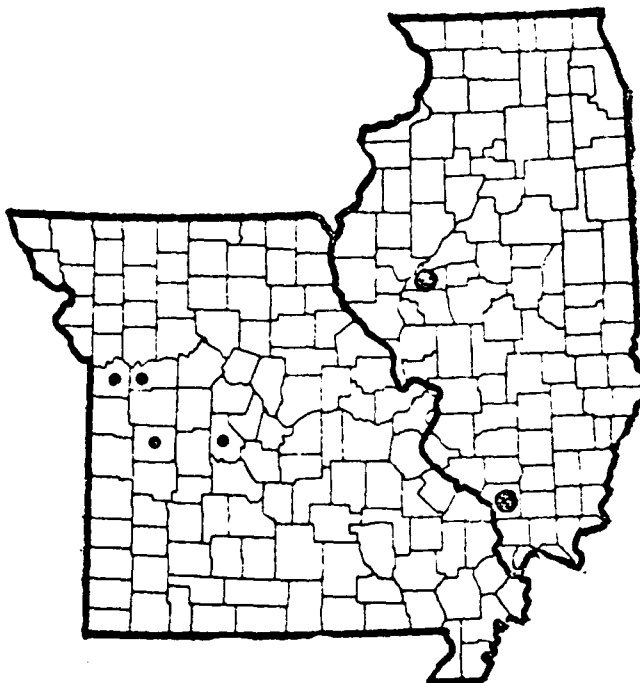
This species is known from six southeastern counties, including Wayne.

CASS, JACKSON (ILL).

Ammannia auriculata Willd.

Scarlet Loosestrife

Classification: Illinois: Considered rare by this investigator.



Description: Annual herb to 25 cm tall. Leaves opposite, sessile, linear-lanceolate. Flowers in axillary cymes.

Habitat: Wet soil.

Range: Indiana to South Dakota, south to New Mexico and Mississippi; Mexico; Asia; Africa; Australia; West Indies.

Notes: The Jackson County station is in Lake Murphysboro State Park, where it was found by R. H. Mohlenbrock. This species is known from four counties in western Missouri.

ALEXANDER (ILL).

Hypericum densiflorum Pursh

St. John's-wort

Classification: Illinois: Considered very rare by
this investigator.



Description: Shrub to 2 m tall. Leaves opposite, crowded, linear-elliptic. Flowers yellow, up to 1.7 cm across. Capsule 3-celled, 4-6 mm long.

Habitat: Swampy ground.

Range: New Jersey to southern Missouri, south to Texas and Florida.

Notes: The only Illinois collection was made by R. H. Mohlenbrock.

In Missouri, this species is known only from Ripley County.

JACKSON (ILL.).

Hypericum denticulatum Walt.

Coppery St. John's-wort

Classification: Illinois: Considered rare by this investigator.



Description: Slender herbaceous perennial. Stems 4-angled. Leaves opposite, nearly erect, narrowly ovate. Petals coppery-yellow, 8-10 mm long. Capsule ovoid.

Habitat: Low ground; gravelly hills.

Range: New Jersey to southern Illinois, south to Kentucky and South Carolina.

Notes: The Jackson County collection was made at Giant City State Park on August 9, 1953, by R. H. Mohlenbrock. It is also known from Pope County.

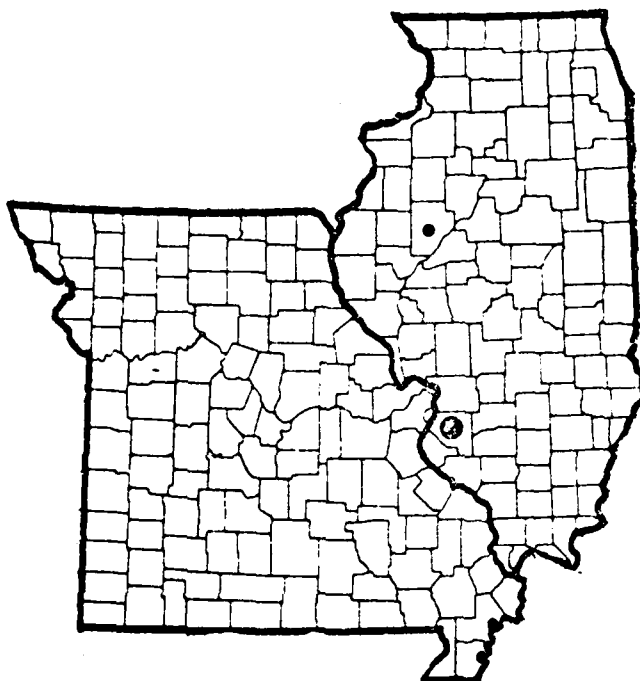
This species is unknown from Missouri.

ST. CLAIR (ILL).

Hypericum ellipticum Hook.

St. John's-wort

Classification: Illinois: Considered rare and possibly extinct by this investigator.



Description: Herbaceous perennial to 0.5 m tall.
Leaves opposite, elliptic-oblong. Petals yellow,
6-10 mm long. Capsule ellipsoid.

Habitat: Low ground.

Range: Newfoundland to Manitoba, south to North Dakota,
Illinois, Ohio, and West Virginia.

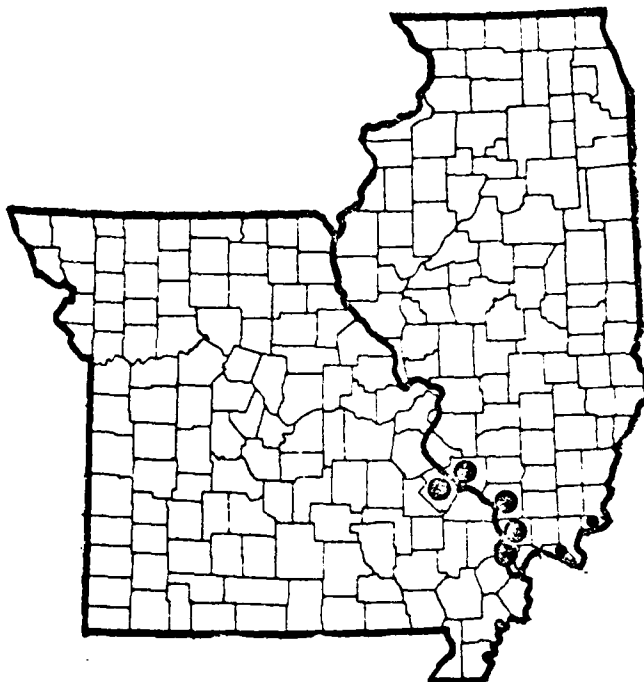
Notes: The St. Clair County collection was made by F.
Brendel nearly 100 years ago. There is a more recent
collection from Fulton County.
This species is unknown from Missouri.

STE. GENEVIEVE (MO).

Jussiaea leptocarpa Nutt.

Primrose Willow

Classification: Missouri: Status Undetermined, but considered rare by this investigator.



Description: Perennial herb, often with submersed roots. Leaves opposite. Petals 6, yellow. Fruit linear-cylindric.

Habitat: Mudflats and sloughs.

Range: Illinois to Oklahoma, south to Texas and Florida; Central America; South America.

Notes: The Ste. Genevieve County collection was made west of Kaskaskia Island on November 4, 1956, by J. A. Steyermark 83628.

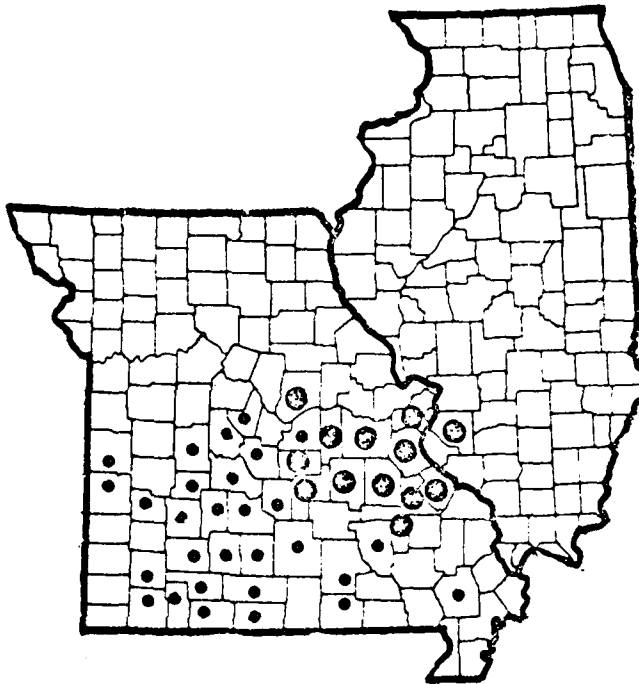
This species is known from six Illinois counties.

ST. CLAIR (ILL).

Oenothera missouriensis Sims

Missouri Primrose

Classification: Illinois: Considered very rare and probably extinct by this investigator.



Description: Low-growing perennial. Leaves linear-lanceolate. Flowers yellow, up to 15 cm across.

Habitat: Rocky woods and glades.

Range: Western Illinois to Kansas, south to Texas.

Notes: The only Illinois collection was made at E. St. Louis in 1895 by A. I. Mulford 1722.

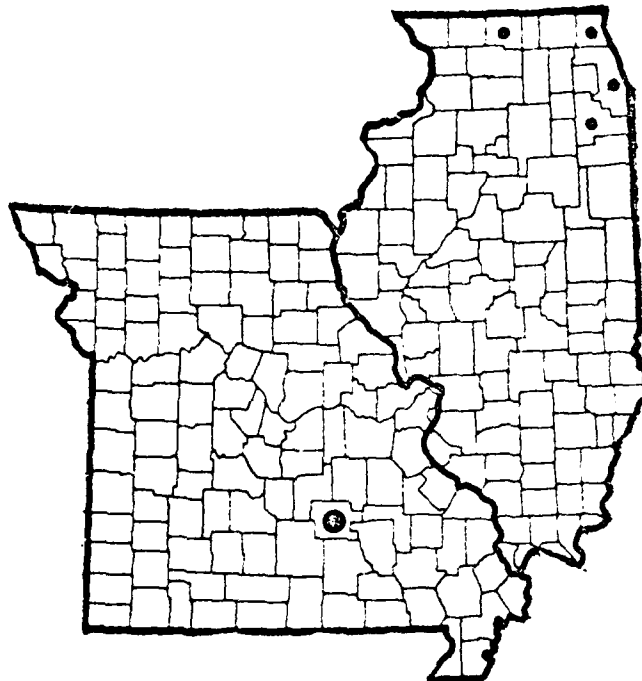
This species is found throughout the Missouri Ozarks.

DENT (MO).

Oenothera perennis L.

Evening Primrose

Classification: Missouri: Status Undetermined, but
considered very rare by
this investigator.



Description: Erect perennial to 0.7 m tall. Leaves ob-
lanceolate or oblong. Flowers yellow, up to 2.5 cm
across.

Habitat: Upland flat woods.

Range: Newfoundland to Manitoba, south to Missouri and
Georgia.

Notes: The Dent County collection was made 3/4 mile
south of Turtle, June 25, 1951, by J. A. Steyer-
mark 71808.

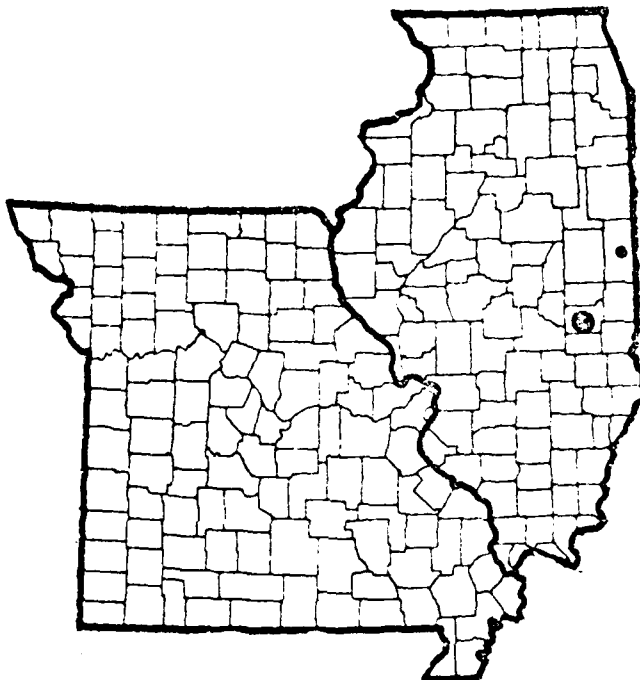
In Illinois, this species is known from four
northern counties.

COLES (ILL).

Acalypha deamii (Weatherby) Ahles

Deam's Three-seeded Mercury

Classification: Illinois: Considered rare by this investigator.



Description: Monoecious perennial to 1 m tall. Leaves broadly ovate, drooping. Seeds 2.5-3.0 mm long.

Habitat: Moist woods.

Range: Ohio; Indiana; Illinois.

Notes: This species is also known in Illinois from Vermilion County.

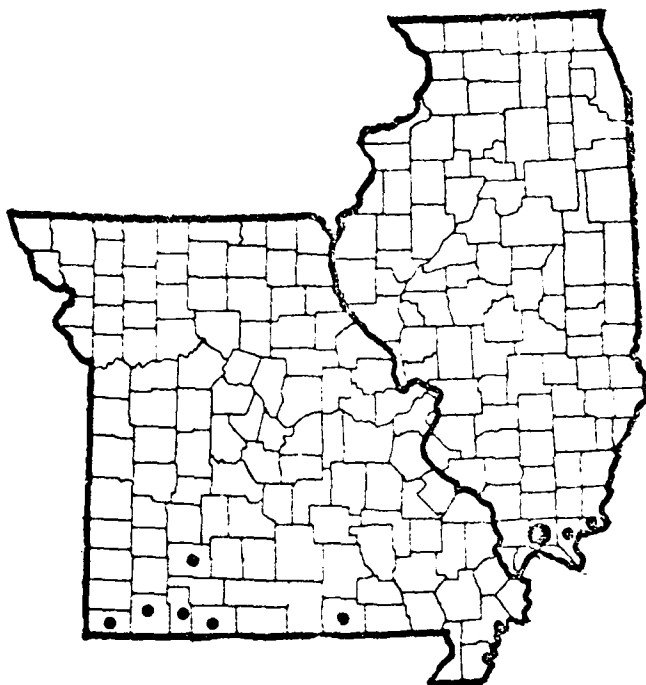
It is unknown from Missouri.

JOHNSON (ILL).

Tragia cordata Michx.

Heart-leaved Tragia

Classification: Illinois: Considered rare by this investigator.



Description: Twining monoecious perennial. Leaves ovate, cordate, coarsely dentate-serrate.

Habitat: Rocky woods.

Range: Indiana to Missouri, south to Texas and Florida.

Notes: The Johnson County collection was made at Wild-cat Bluff southwest of Vienna. This species is also known in Illinois from Hardin and Pope counties.

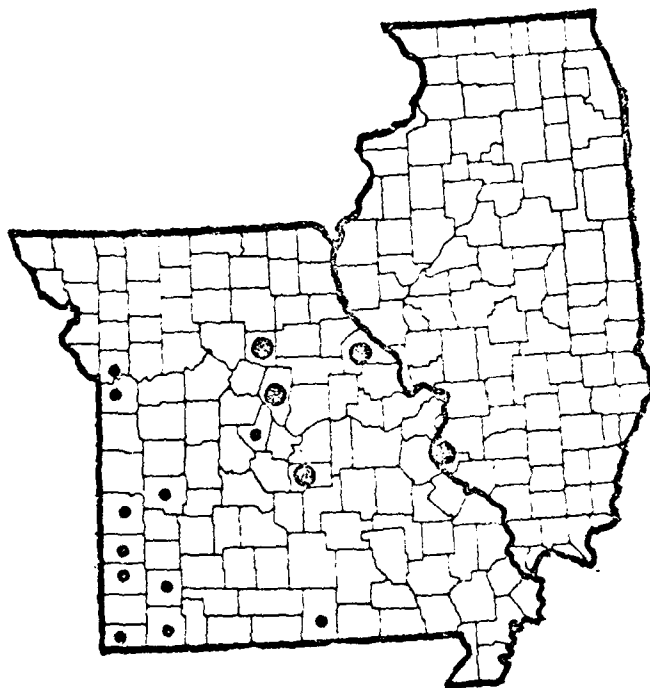
This species is known from six southwestern counties of Missouri.

MONROE (ILL).

Euphorbia spathulata Lam.

Spurge

Classification: Illinois: Considered very rare by
this investigator.



Description: Monoecious perennial to 45 cm tall.
Leaves obovate. Seeds reticulate, 1.3-1.5 mm
long.

Habitat: Limestone ledge.

Range: Minnesota to Washington, south to Texas and
Alabama; Mexico; South America.

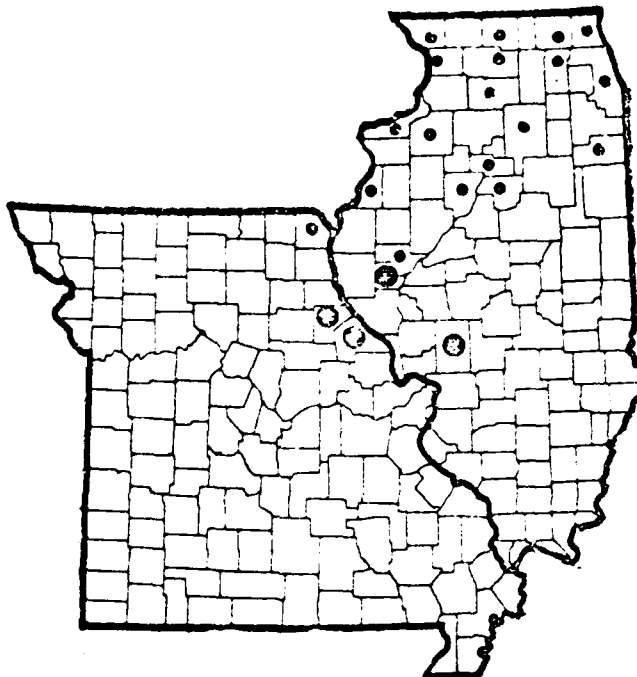
Notes: The only Illinois collection for this species
is from south of Fults, in 1962, by J. E. Ozment.
This species is scattered in much of Mis-
souri.

JEFFERSON, PIKE, RALLS (MO).

Aralia nudicaulis L.

Wild Sarsaparilla

Classification: Missouri: Status Undetermined.



Description: Perennial herb. Leaves pinnately compound. Flowers greenish, up to 3 mm broad. Fruit globose, purplish-black, up to 6 mm in diameter.

Habitat: Rich wooded slopes.

Range: Newfoundland to British Columbia, south to Idaho, Colorado, Missouri, and Georgia.

Notes: The Ralls County collection was made 1 mile southeast of Ilasco on May 12, 1939, by J. A. Steyermark 22343. It is also known from Clark County.

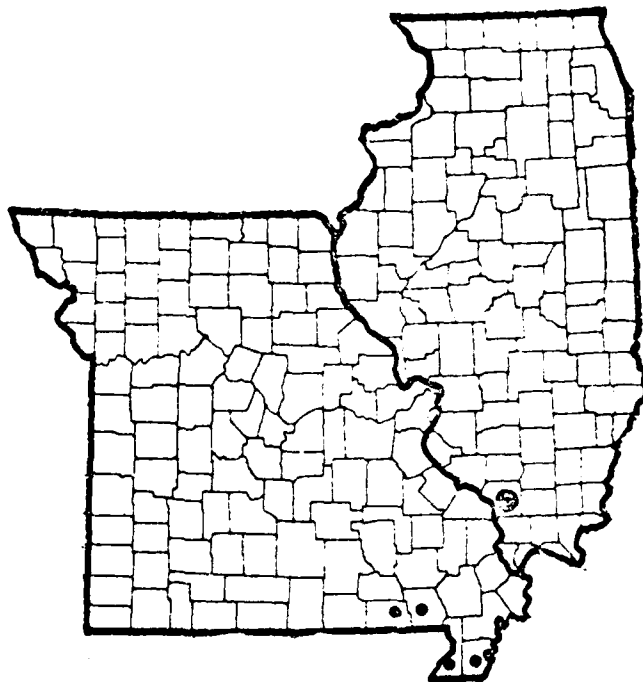
This species is known from several Illinois counties, including Brown, Macoupin, and Schuyler counties.

JACKSON (ILL).

Cynosciadium digitatum DC.

Cynosciadium

Classification: Illinois: Considered very rare by
this investigator.



Description: Slender annual to 0.7 m tall. Leaves
palmately compound. Flowers white. Fruit beaked.

Habitat: Low, swampy woods.

Range: Illinois to Oklahoma, south to Texas and Missis-
sippi.

Notes: The only collection of this species in Illinois
was made at the Greentree Reservoir in 1971 by
D. K. Evans.

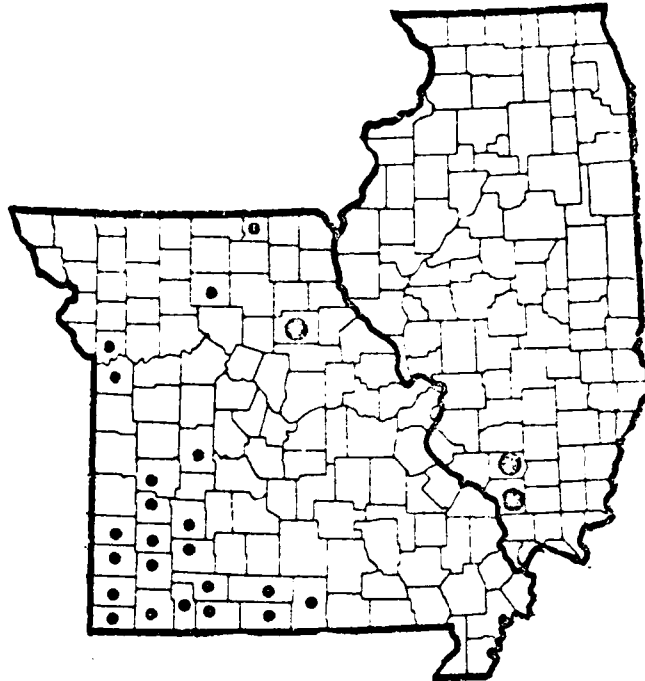
In Missouri, this species is known from four
southeastern counties.

JACKSON, PERRY (ILL).

Daucus pusillus Michx.

Dwarf Wild Carrot

Classification: Illinois: Considered rare by this investigator.



Description: Perennial to 30 cm tall. Umbel of flowers up to 6 cm across.

Habitat: Dry soil.

Range: South Carolina to Oklahoma, south to Texas and Florida; British Columbia to California; Mexico.

Notes: The Perry County collection was made northwest of Pinckneyville on June 23, 1949, by R. A. Evers. The Jackson County collection was made northeast of Murphysboro by R. H. Mohlenbrock.

In Missouri, this species is scattered in the western half of the state.

IRON (MO).

Ptilimnium capillaceum (Michx.) Raf.

Mock Bishop's Weed

Classification: Missouri: Status Undetermined, but considered probably extinct by this investigator.



Description: Slender annual to 0.7 m tall. Leaves finely dissected into filiform segments. Flowers white.

Habitat: Wet ground.

Range: Massachusetts to Oklahoma, south to Texas and Florida.

Notes: The only collection from the bi-state area was made at Pilot Knob on June 17, 1888, by L. A. Pammel.

UNION (ILL).

Rhododendron periclymenoides (Michx.) Shinnery

Pink Azalea

Classification: Illinois: Considered very rare by
this investigator.



Description: Shrub to 4 m tall. Flowers pink, not fragrant. Corolla not glandular.

Habitat: Cherty slopes.

Range: Massachusetts to Illinois, south to Texas and Florida.

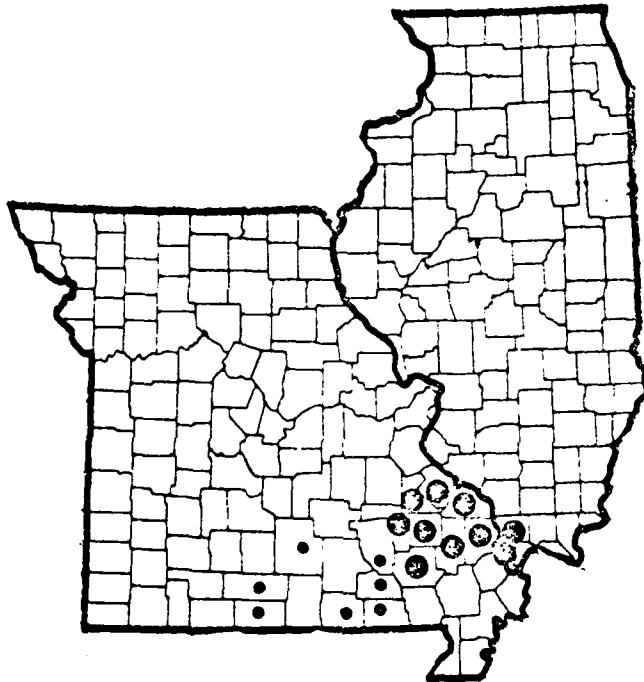
Notes: This species is known in the bi-state area only from the Pine Hills, where it was first collected by W. Bailey & J. R. Swayne 34 (in part).

ALEXANDER, UNION (ILL).

Rhododendron prinophyllum (Small) Millais

Pink Azalea

Classification: Illinois: Considered rare by this investigator.



Description: Shrub to 4 m. Flowers rose or pink, fragrant. Corolla glandular.

Habitat: Cherty slopes.

Range: Maine to Quebec, south to Missouri and Virginia.

Notes: This species is scattered in the Missouri Ozarks. Steyermark calls this species R. roseum (Loisel.) Rehd.

STE. GENEVIEVE (MO).

Rhododendron roseum (Loisel.) Rehd. f. albidum Steyerm.

White Azalea

Classification: Missouri: Rare.



Description: Shrub to 4 m tall. Flowers white.

Habitat: Wooded ravines.

Range: Missouri.

Notes: The only location known for this color form is east of Chimney Rocks, 5 miles east of Pickle, where it was found on May 24, 1933, by J. A. Steyermark 8522.

DENT (MO).

Lyonia mariana (L.) DC.

Stagger Bush

Classification: Missouri: Endangered.



Description: Shrub to 5 m tall. Corolla 8-13 mm long.
Fruit a capsule.

Habitat: Sandy pine-oak woodland.

Range: Connecticut to Oklahoma, south to Texas and
Florida.

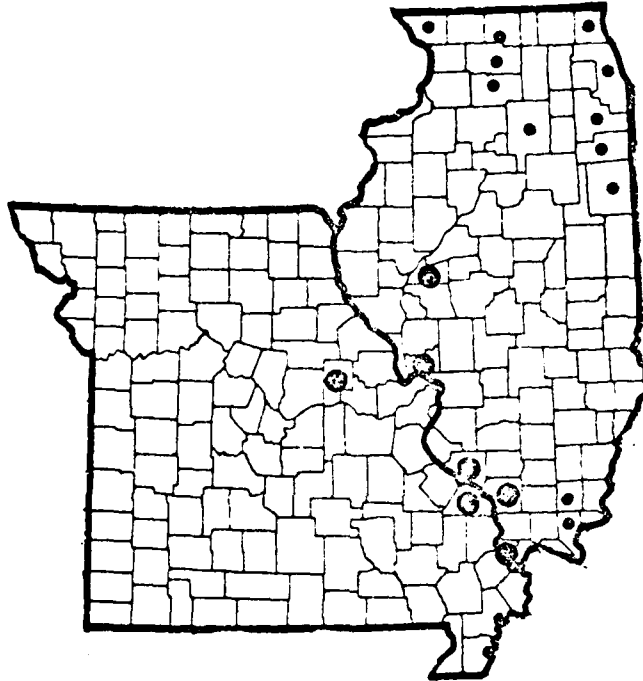
Notes: The only collection in the bi-state area was
made 2 miles south of Lake Spring on June 11, 1953,
by C. L. Kucera.

MONTGOMERY, PERRY (MO).

Gaylussacia baccata (Wang.) K. Koch

Black Huckleberry

Classification: Missouri: Rare.



Description: Shrub to 1 m tall. Leaves resinous-dotted. Corolla campanulate, up to 5.5 mm long. Fruit black, about 6 mm in diameter.

Habitat: Cherty and rocky wooded slopes.

Range: Newfoundland to Saskatchewan, south to Louisiana and Georgia.

Notes: The Montgomery County collection was made 8 1/2 miles northeast of Bellflower on September 16, 1954, by J. A. Steyermark 77419. The Perry County collection was made 5 miles southeast of Altenburg on April 22, 1938, by J. A. Steyermark 4948.

This species is scattered in Illinois.

JACKSON, JOHNSON, UNION, WILLIAMSON (ILL).

Dodecatheon frenchii (Vasey) Rydb.

French's Shooting-star

Classification: Federal: Threatened.



Description: Perennial. Leaves spatulate, abruptly contracted to the petiole. Flowers white or lavender.

Habitat: Beneath overhanging sandstone cliffs.

Range: Southern Illinois; Kentucky; Arkansas.

Notes: The type locality for this plant is Giant City State Park. It is also known from four other counties in southern Illinois.

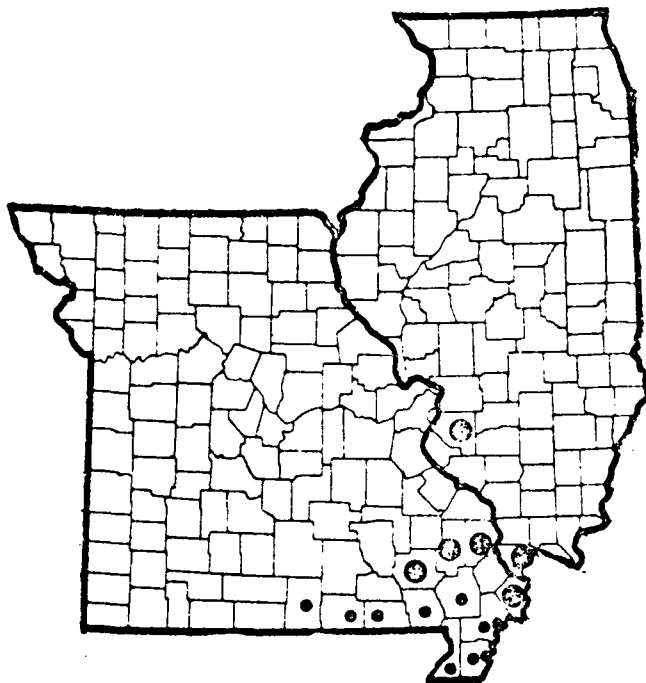
This species is unknown from Missouri.

PULASKI, ST. CLAIR (ILL).

Lysimachia radicans Hook.

Trailing Loosestrife

Classification: Illinois: Considered rare by this investigator.



Description: Stems reclining, rooting at the nodes.
Leaves lanceolate. Flowers yellow, up to 8 mm
across.

Habitat: Swampy woods.

Range: Tennessee to Missouri, south to Texas and Mississippi.

Notes: The Pulaski County collection was made 1 mile
east of Karnak on August 11, 1949, by G. S. Winter-
ringer 3209.

This species is known from several counties
in southeastern Missouri.

JACKSON, JOHNSON, UNION (ILL).

Hottonia inflata Ell.

Featherfoil

Classification: Illinois: Considered rare by this investigator.



Description: Spongy, aquatic herb. Leaves deeply pinnatisect. Flowers white, in verticils.

Habitat: Swamps.

Range: Throughout North America.

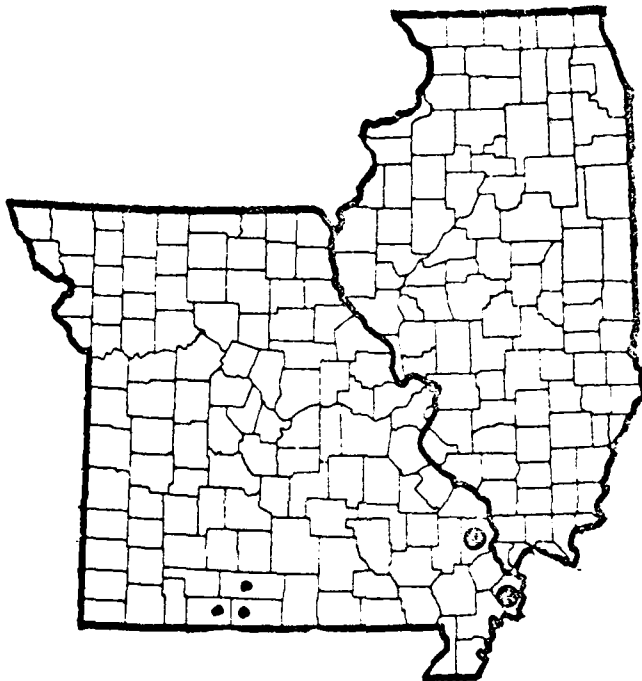
Notes: This species is known from several counties in southeastern Missouri.

CAPE GIRARDEAU, MISSISSIPPI (MO).

Chionanthus virginica L.

Fringe Tree

Classification: Missouri: Rare.



Description: Shrub to 4 m tall. Leaves opposite, simple.
Flowers in drooping panicles.

Habitat: Rocky woods.

Range: New Jersey to Oklahoma, south to Texas and Florida.

Notes: The Cape Girardeau County collection was made
along Sloan's Creek on April 29, 1954, by D. G.
Rhodes 302. This species is also known from 3 coun-
ties in southwestern Missouri.

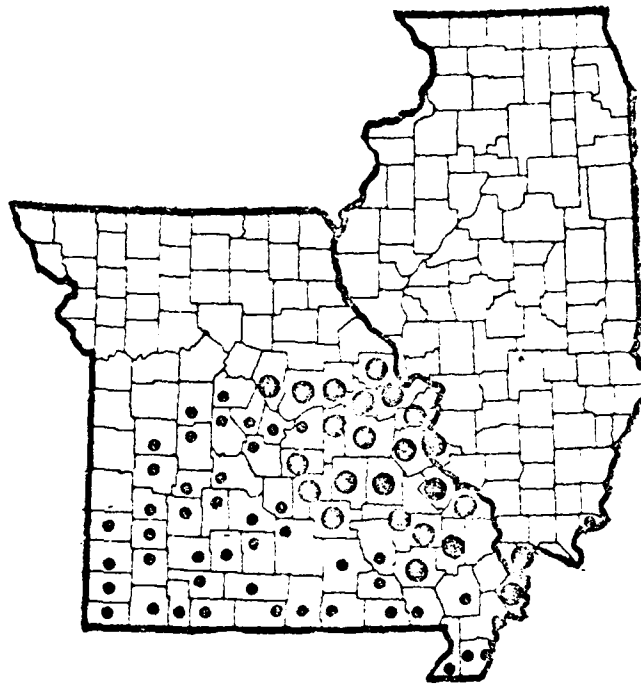
It is unknown from Illinois.

MONROE, PULASKI (ILL).

Bumelia lanuginosa (Michx.) Pers. var. oblongifolia (Nutt.)
Clark

False Buckthorn

Classification: Illinois: Considered rare by this
investigator.



Description: Small tree to 8 m tall. Twigs usually
spiny. Leaves densely tomentose beneath. Flowers
in axillary whorls.

Habitat: Rocky, wooded slopes.

Range: Illinois to Oklahoma, south to Texas and Louisiana.

Notes: This species is also known in Illinois from Hardin
County.

This species is widespread in the Missouri
Ozarks.

BOLLINGER, CAPE GIRARDEAU, MISSISSIPPI, WAYNE (MO).

Styrax americana Lam.

Storax

Classification: Missouri: Rare.



Description: Shrub to 4 m tall. Flowers white, drooping.

Habitat: Swamps.

Range: Virginia to Oklahoma, south to Louisiana and Florida.

Notes: There are six other Missouri county records and five county records in Illinois.

ALEXANDER (ILL).

Styrax grandifolia Ait.

Big Leaf Snowbell Bush

Classification: Illinois: Considered very rare by
this investigator.



Description: Shrub to 4 m tall. Leaves obovate or oval, tomentose or canescent. Flowers white, up to 1.8 cm long.

Habitat: Along woodland stream.

Range: Virginia to Ohio and Illinois, south to Alabama and Florida.

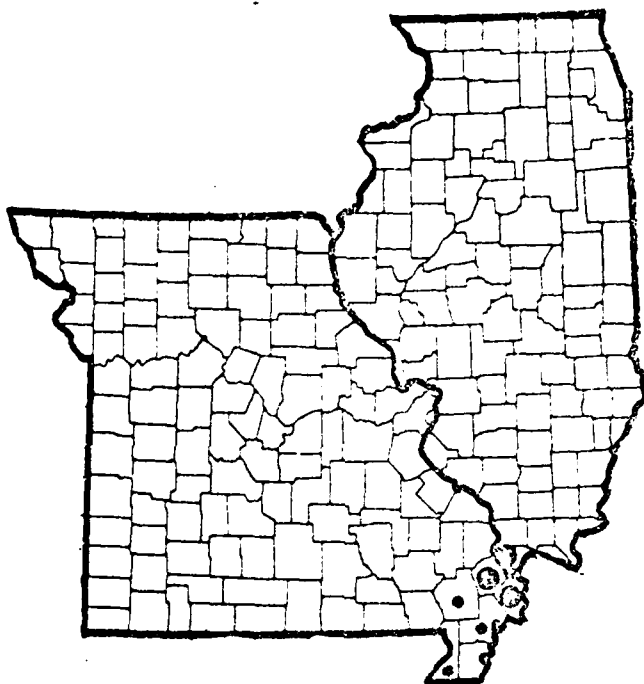
Notes: The only collection of this species from the bi-state area was from northeast of Olive Branch by J. Schwegman in 1968.

ALEXANDER (ILL.).

Polypremum procumbens L.

Polypremum

Classification: Illinois: Considered very rare by
this investigator.



Description: Much branched annual. Stems 4-angled.
Leaves narrowly linear. Flowers in axillary cymes.

Habitat: Sandy soil.

Range: New York to Missouri, south to Texas and Florida;
Mexico; West Indies.

Notes: The only Illinois collection was made at Horse-
shoe Lake by J. S. Huston in 1970.

This species is known from 5 counties in
southeastern Missouri, including Mississippi and
Scott.

JOHNSON (ILL).

Bartonia paniculata (Michx.) Muhl.

Screw-stem

Classification: Illinois: Considered very rare by
this investigator.



Description: Slender annual. Leaves reduced to scales.
Corolla lobes lanceolate, entire.

Habitat: Moist sandstone cliff.

Range: Massachusetts to Oklahoma, south to Louisiana
and Florida.

Notes: The only Illinois station was found at Ferne
Clyffe State Park by J. Schwegman in 1970.

The only Missouri station for this species
is in Stoddard County.

CASS (ILL).

Stylisma pickeringii (Torr.) Gray var. pattersonii (Fern.
& Schub.) Myint

Procumbent Stylisma

Classification: Illinois: Considered rare by this
investigator.



Description: Stems pubescent. Leaves linear. Corolla
white, up to 2.5 cm long.

Habitat: Sandy prairies.

Range: Illinois to Iowa, south to Texas.

Notes: This species is unknown from Missouri.

ST. LOUIS (MO).

Cuscuta indecora Choisy

Dodder

Classification: Missouri: Considered rare by this investigator.



Description: Flowers up to 3 mm long, papillose. Calyx 5-lobed, minutely crenulate.

Habitat: Along railroads.

Range: Minnesota to California, south to Texas and Florida; Mexico.

Notes: The St. Louis County collection was collected first on June 30, 1956, by V. Muehlenbach.

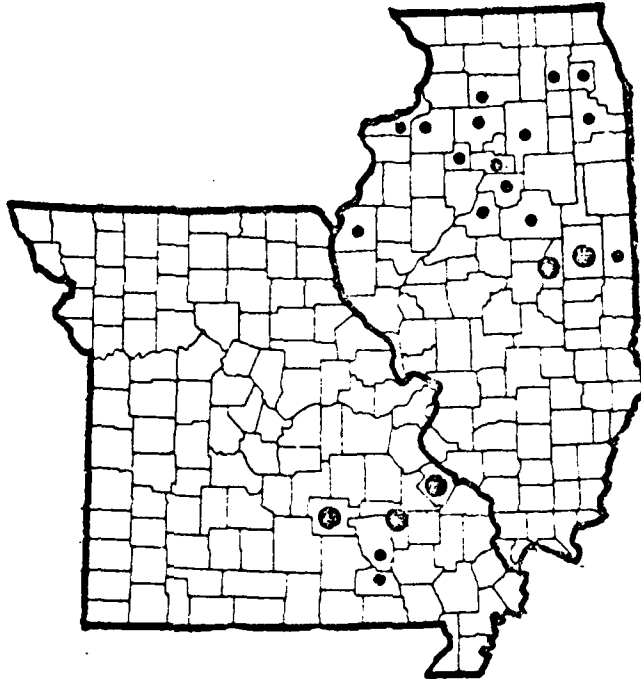
This species is known from 6 counties in southern Illinois.

DENT, IRON, STE. GENEVIEVE (MO).

Phlox maculata L. var. pyramidalis (Smith) Wherry

Wild Sweet William

Classification: Missouri: Rare.



Description: Erect perennial. Leaves lanceolate.
Corolla pink or purple. Inflorescence longer than broad.

Habitat: Swampy meadows.

Range: Virginia and North Carolina to Missouri.

Notes: This species is also known in Missouri from Carter and Reynolds counties.

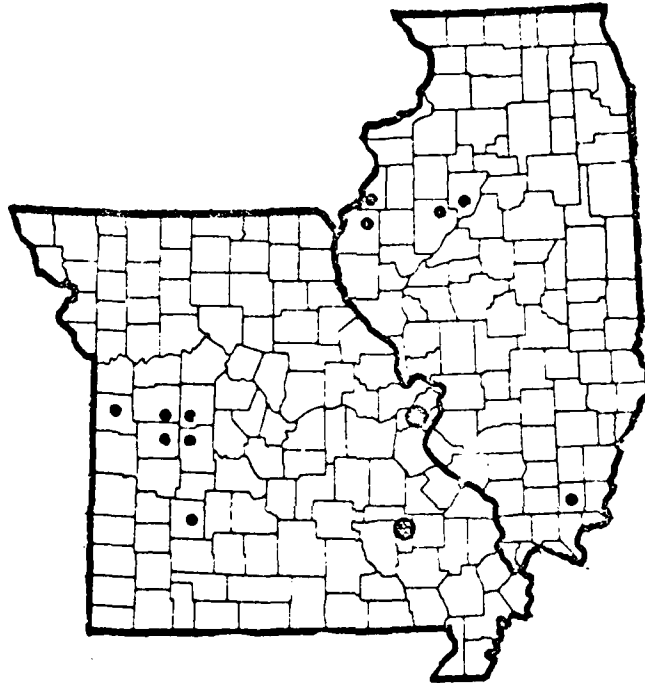
This species is scattered in the northern half of Illinois.

IRON, ST. LOUIS (MO).

Asclepias meadii Torr.

Mead's Milkweed

Classification: Federal: Threatened.



Description: Glabrous perennial to 0.6 m tall. Leaves sessile, ovate-lanceolate. Flowers green and purple.

Habitat: Prairie; glades.

Range: Indiana and Wisconsin to Kansas and Missouri.

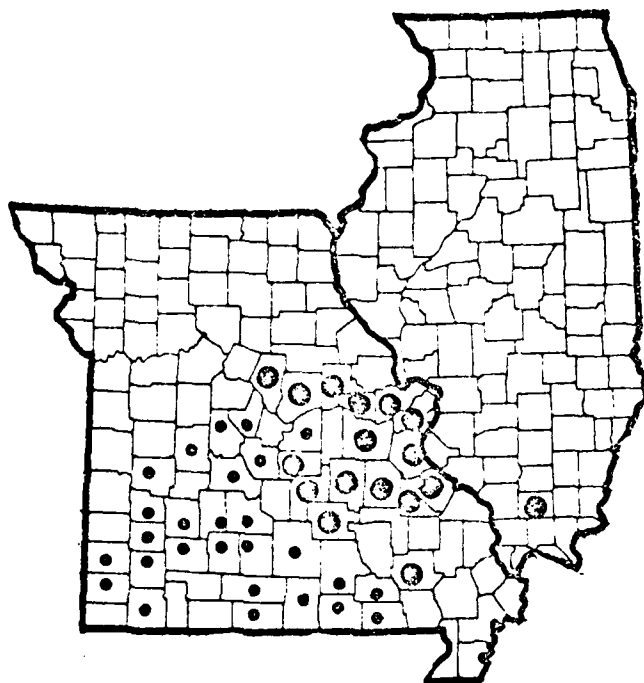
Notes: Thus far this species is known from 6 Illinois counties and 8 Missouri counties.

WILLIAMSON (ILL).

Matelea decipiens (Alex.) Woodson

Climbing Milkweed

Classification: Illinois: Considered very rare by
this investigator.



Description: Pubescent vine. Leaves broadly ovate.
Flowers purplish. Corolla lobes 3-6 mm broad.

Habitat: Low woods and thickets.

Range: South Carolina to Oklahoma, south to Louisiana.

Notes: The only Illinois collection was made near Lake
of Egypt by J. R. Swayne.

This species is scattered throughout the
Missouri Ozarks.

MADISON, ST. LOUIS (MO).

Matelea obliqua (Jacq.) Woodson

Matelea

Classification: Missouri: Rare.



Description: Hirsute vine. Leaves broadly ovate.
Flowers purplish. Corolla lobes 1.5-2.0 mm broad.

Habitat: Rocky woods.

Range: Maryland to Missouri, south to Georgia.

Notes: This species is also known in Missouri from
Howell and Shannon counties.

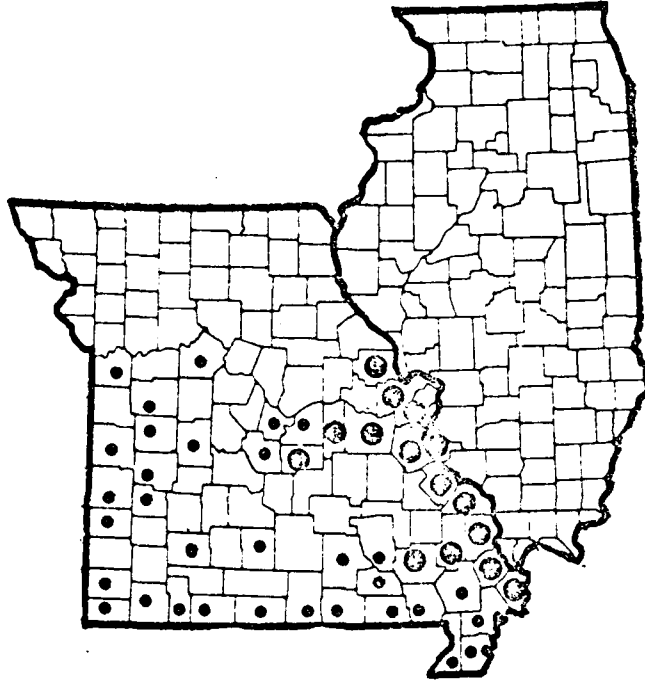
This species is known in Illinois from Pope
County.

MONROE (ILL).

Heliotropium tenellum (Nutt.) Torr.

Slender Heliotrope

Classification: Illinois: Considered very rare by
this investigator.



Description: Annual. Leaves linear. Flowers sessile,
white, up to 5 mm long.

Habitat: Limestone ledges.

Range: Kentucky to Oklahoma, south to Texas and Alabama.

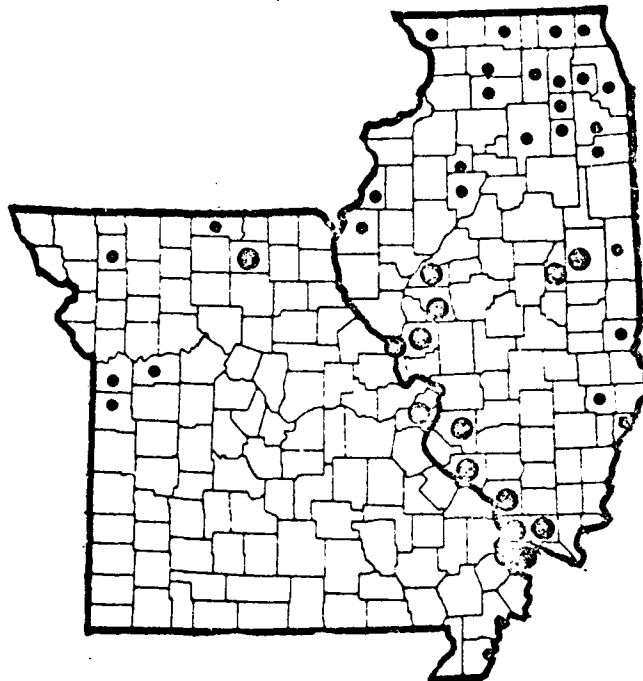
Notes: The first Illinois collection was made southeast
of Fults on August 30, 1950, by R. A. Evers.
This species is common in the Missouri Ozarks.

ADAIR, ST. LOUIS (MO).

Lithospermum latifolium Michx.

American Gromwell

Classification: Missouri: Rare.



Description: Pubescent perennial to 1 m tall. Leaves ovate to ovate-lanceolate. Flowers pale yellow, 4-6 mm long. Nutlets white, shining.

Habitat: Rich woods.

Range: New York to Minnesota, south to Kansas, Arkansas, and Tennessee.

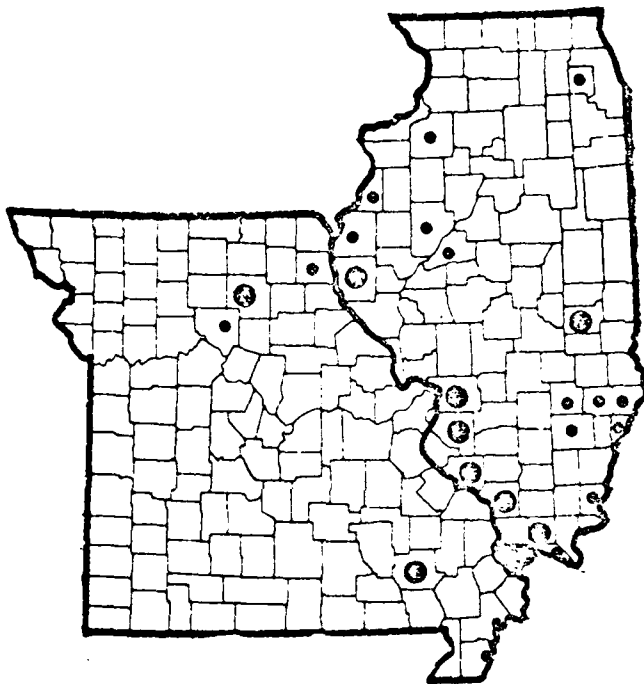
Notes: This species is also known from 5 other counties in Missouri and from several Illinois counties.

MACON, WAYNE (MO).

Chelone obliqua L. var. speciosa Pennell & Wherry

Rose Turtlehead

Classification: Missouri: Undetermined.



Description: Perennial to 0.6 m tall. Leaves lanceolate, sharply serrate. Flowers rose-purple, up to 2.3 cm long.

Habitat: Wet ground.

Range: Indiana to Minnesota, south to Arkansas.

Notes: The Macon County collection was made 2 miles northeast of Ardmore on September 15, 1954, by J. A. Steyermark 77344. The first Wayne County collection was made 1 1/2 miles southwest of Wappapello on August 29, 1938, by J. A. Steyermark 6243. This species is also known in Missouri from Chariton and Lewis counties.

This species is scattered in Illinois.

UNION (ILL).

Penstemon alluviorum Pennell

Lowland Beardstongue

Classification: Illinois: Considered very rare by
this investigator.



Description: Perennial. Stems minutely pubescent.
Inflorescence sparsely glandular. Corolla 1.7-2.3
cm long.

Habitat: Wet soil.

Range: Indiana to Missouri, south to Arkansas and Mis-
sissippi.

Notes: The only Illinois station is near Wolf Lake.

This species is confined in Missouri to 5
southeastern counties, including Cape Girardeau
and Wayne.

JACKSON, RANDOLPH (ILL).

Penstemon arkansanus Pennell

Beardstongue

Classification: Illinois: Considered rare by this investigator.



Description: Perennial. Leaves glabrous. Sepals 2-4 mm long. Corolla 1.5-1.8 cm long.

Habitat: Rocky woods.

Range: Illinois to Oklahoma, south to Texas and Arkansas.

Notes: The first Illinois collection was made southwest of Ava in Jackson County on May 21, 1956, by R. H. Mohlenbrock 8808.

This species is confined in Missouri to the extreme southwestern counties.

MISSISSIPPI (MO),

Bacopa acuminata (Walt.) Robins.

Water Hyssop

Classification: Missouri: Status Undetermined.



Description: Perennial herb to 0.5 m tall. Leaves opposite, oblong-lanceolate, serrate. Flowers to 1.4 cm long, purple. Corolla 2-lipped.

Habitat: Wet ground.

Range: Maryland to Oklahoma, south to Texas and Florida.

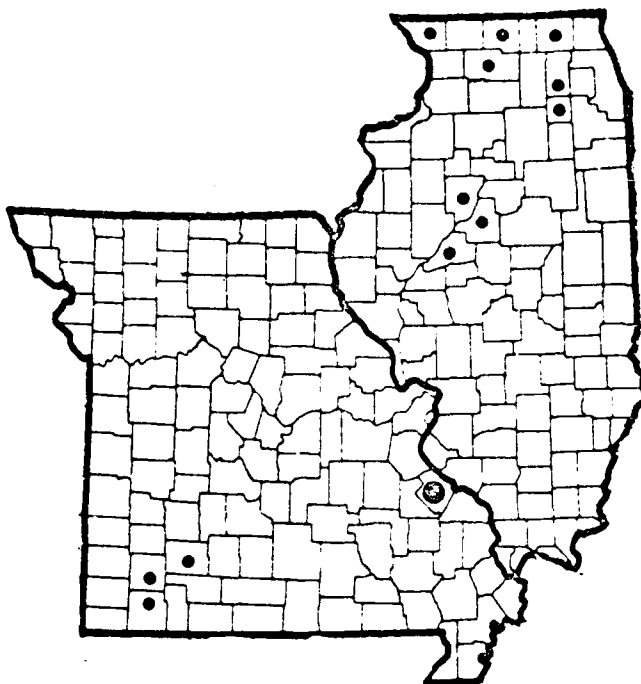
Notes: In addition to Mississippi County, this species is known from Dunklin, Jasper, and Ripley counties. In Illinois, this species is known only from Wabash County.

STE. GENEVIEVE (MO).

Mimulus glabratus HBK. var. fremontii (Benth.) Grant

Monkey-flower

Classification: Missouri: Rare.



Description: Perennial, rooting at the nodes. Leaves more or less orbicular. Corolla yellow, 8-12 mm long.

Habitat: Along spring branches and wet ledges.

Range: Ontario to Manitoba, south to Montana, Missouri, and Illinois.

Notes: Other Missouri counties for this species are Barry, Greene, and Lawrence.

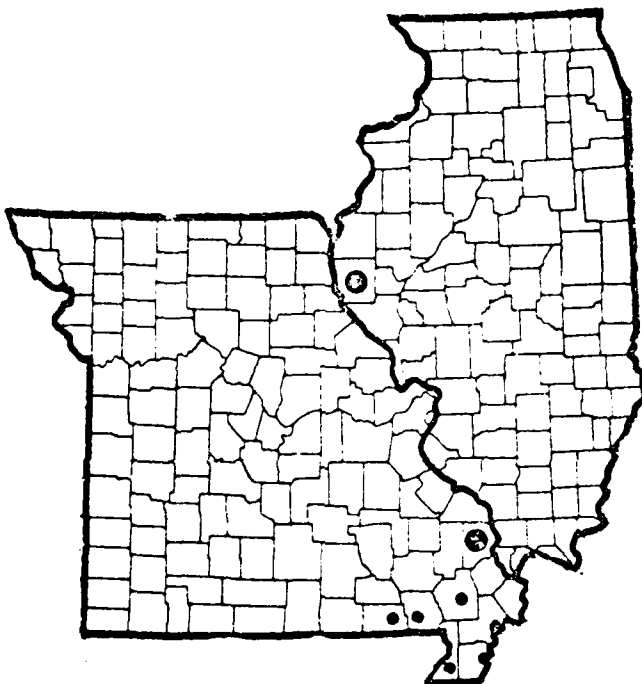
This species is confined in Illinois to the northern half of the state.

ADAMS (ILL).

Physostegia intermedia (Nutt.) Engelm. & Gray

False Dragonhead

Classification: Illinois: Considered very rare by
this investigator.



Description: Slender perennial to 1 m tall. Leaves linear to narrowly lanceolate, more or less undulate. Corolla purple, up to 1.5 cm long.

Habitat: Edge of slough; wet woods.

Range: Kentucky to Oklahoma, south to Texas and Alabama.

Notes: The only Illinois collection was made near Quincy by R. A. Evers.

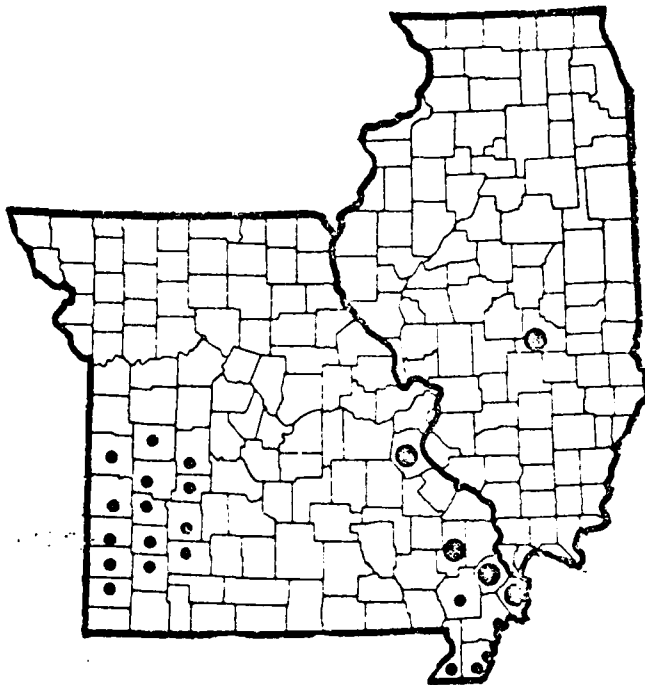
This species is known from five counties in southeastern Missouri, including Cape Girardeau.

SHELBY (ILL).

Collinsia violacea Nutt.

Violet Collinsia

Classification: Illinois: Considered very rare by
this investigator.



Description: Slender annual. Leaves lanceolate, mostly entire. Corolla violet, up to 1.4 cm long.

Habitat: Sandy hillsides.

Range: Illinois to Kansas, south to Texas.

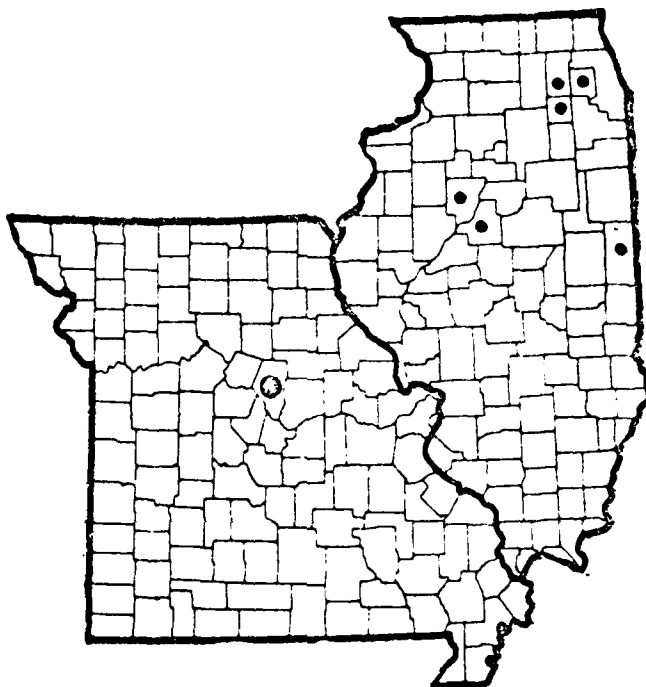
Notes: The first Illinois collection was made May 12, 1947, by U. L. Evans 5 miles south of Shelbyville. There are several stations for this species in Missouri.

BOONE (MO).

Veronica americana (Raf.) Schwein.

American Brooklime

Classification: Missouri: Endangered.



Description: Perennial herb with stolons. Stems rooting at the nodes. Flower pale blue, up to 4.5 mm across.

Habitat: Wet ground.

Range: Newfoundland to Alaska, south to California, Nebraska, Missouri, and North Carolina.

Notes: The only collection in Missouri was made at Columbia in July, 1903, by F. Daniels.

This species is confined to the northern half of Illinois.

IRON (MO).

Scutellaria serrata Andr. var. montana (Chapm.) Penland

Skullcap

Classification: Missouri: Endangered.



Description: Slender, glabrous perennial to 0.6 m tall.
Racemes simple and terminal. Corolla blue, up to
2.2 cm long.

Habitat: Rocky woods.

Range: Tennessee to Missouri, south to Alabama and
Georgia.

Notes: The only collection from the bi-state area was
made nearly a century ago by L. Pammel.

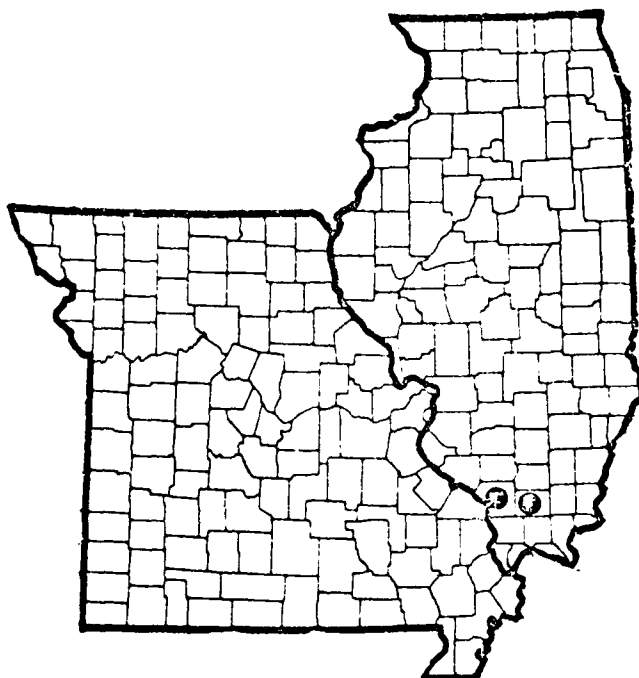
JACKSON, WILLIAMSON (ILL).

Synandra hispidula (Michx.) Baill.

Synandra

Classification: Federal: Threatened.

Illinois: Considered rare by this
investigator.



Description: Annual to 0.7 m tall. Leaves broadly ovate, cordate. Corolla white, up to 3 cm long.

Habitat: Rich woods.

Range: Ohio to Illinois, south to Tennessee and Virginia.

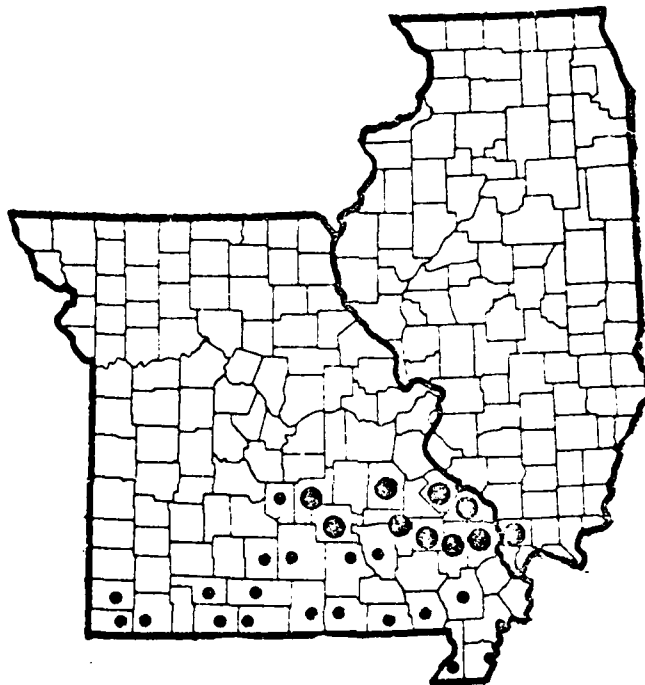
Notes: This species is known in Jackson County from Giant City State Park and the Pomona Natural Bridge and in Williamson County from Devil's Kitchen Lake. It is unknown from Missouri.

UNION (ILL).

Pycnanthemum albescens Torr. & Gray

Whitish Mountain Mint

Classification: Illinois: Considered very rare by
this investigator.



Description: Soft-pubescent perennial to 0.6 m tall.
Leaves canescent, at least on the lower surface.

Habitat: Cherty slopes; rocky woods.

Range: Illinois to Oklahoma, south to Texas and Florida.

Notes: This species is found throughout the Missouri
Ozarks.

ALEXANDER (ILL).

Pycnanthemum torrei Benth.

Mountain Mint

Classification: Illinois: Considered very rare by
this investigator.



Description: Slender perennial to 0.8 m tall. Leaves
linear-lanceolate. Flower clusters canescent.

Habitat: Dry woods.

Range: Connecticut to Georgia; Illinois to Kansas;
Arkansas.

Notes: This species has also been found in Dunklin
County, Missouri.

ALEXANDER (ILL).

Stachys clingmanii Small

Hedge Nettle

Classification: Illinois: Considered rare by this investigator.



Description: Perennial. Stems more or less glabrous.
Calyx pubescent throughout.

Habitat: Rocky woods.

Range: Virginia to southern Illinois, south to Tennessee and North Carolina.

Notes: Two collections were made in Alexander County (between Gale and McClure, and 5 miles south of Olive Branch) in 1949 by G. S. Winterringer. This species is also known from Hardin and Massac counties.

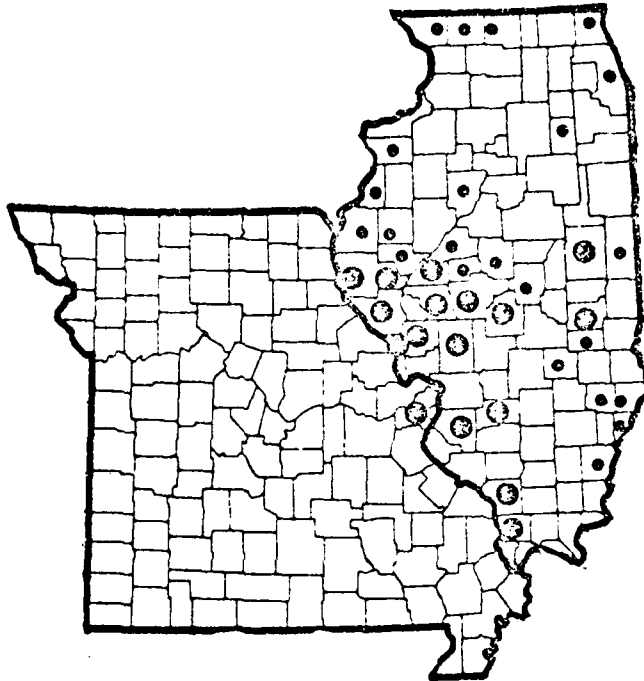
It is unknown from Missouri.

ST. LOUIS (MO).

Stachys hyssopifolia Michx. var. ambigua Gray

Hedge Nettle

Classification: Missouri: Status Undetermined, but
considered probably ex-
tinct by this investigator.



Description: Retrorsely hispid perennial to 0.6 m tall.
Leaves lanceolate. Flowers in terminal spikes.
Corolla pale purple, up to 1.5 cm long.

Habitat: Low ground.

Range: Pennsylvania to Iowa, south to Missouri and
Florida.

Notes: There have been several collections from St.
Louis, but none since 1915.
This plant is scattered in Illinois.

CAPE GIRARDEAU, SCOTT (MO).

Epifagus virginiana (L.) Bart.

Beech-drops

Classification: Missouri: Endangered.



Description: Purplish or yellow-brown herb. Corolla white tinged with brownish purple.

Habitat: Parasitic on the roots of beech trees.

Range: Nova Scotia to Ontario, south to Louisiana and Florida.

Notes: The Scott County collection was made in 1933 by J. H. Kellogg. It is also known from Stoddard County.

This species is scattered in the southern part of Illinois.

ST. LOUIS (MO).

Orobanche ludoviciana Nutt.

Broomrape

Classification: Missouri: Endangered.



Description: Non-green perennial with viscid-puberulent stems. Flowers densely spicate-racemose. Corolla purplish, 1.5-2.0 cm long.

Habitat: Parasitic on various herbs.

Range: Manitoba to British Columbia, south to California, Texas, and Ohio.

Notes: There are only two collections known in Missouri, both from near Crescent in St. Louis County, once in 1890 and once in 1893.

This species is known from 4 Illinois counties.

ALEXANDER, PULASKI (ILL).

Justicia ovata (Walt.) Lindau

Water Willow

Classification: Illinois: Considered rare by this investigator.



Description: Slender perennial to 0.4 m tall. Leaves roundish. Corolla pale lavender.

Habitat: Swamps; bottomland woods.

Range: Virginia to southeastern Missouri, south to Florida.

Notes: The Alexander County collection was made at Cache on August 8, 1917, by L. P. Cranwill. The Pulaski County collections are from 1 mile east of Karnak, the first one made on August 11, 1949, by G. S. Winter-ringer.

This species is known from seven counties in southeastern Missouri, including Wayne.

PULASKI, UNION (ILL).

SCOTT, ST. LOUIS (MO).

Plantago heterophylla Nutt.

Small Plantain

Classification: Illinois: Considered rare by this investigator.

Missouri: Considered rare and probably extinct by this investigator.



Description: Tiny annual. Leaves filiform to narrowly linear. Corolla lobes 0.5 mm long.

Habitat: Sandy soil.

Range: Virginia to Missouri, south to Texas and Florida; California; Mexico.

Notes: The Union County collection was made at Anna on May 24, 1923, by H. C. Benke 3959.

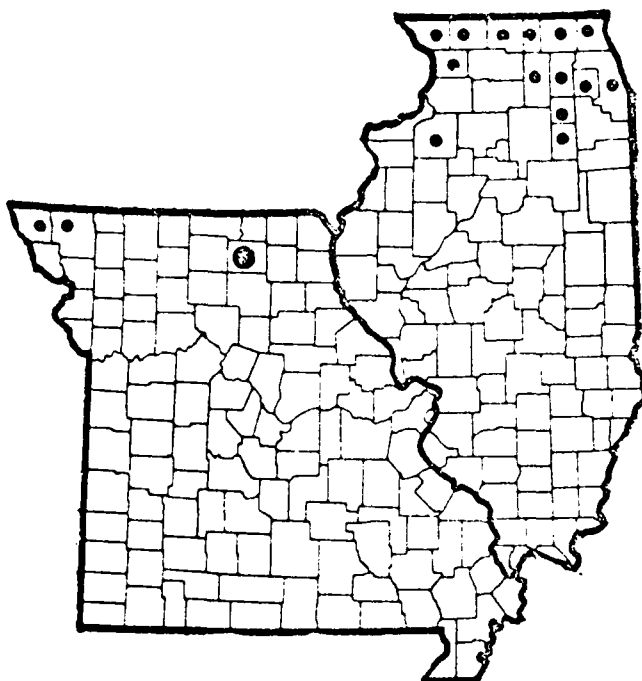
Both Missouri collections were made during the nineteenth century.

ADAIR (MO).

Symphoricarpos occidentalis Hook.

Wolfberry

Classification: Missouri: Rare.



Description: Shrub to 1 m tall. Leaves elliptic to oval.
Corolla pale pink, 6-9 mm long.

Habitat: Loess hills; open banks; thickets.

Range: Ontario to British Columbia, south to New Mexico,
Kansas, Missouri, and Illinois.

Notes: In addition to Adair County, this species is
known in Missouri from Atchison and Nodaway counties.

This species is restricted in Illinois to the
northern counties.

MARIES (MO).

Triosteum angustifolium Bickn. var. eamesii Wieg.

Narrow-leaved Horse Gentian

Classification: Missouri: Rare.



Description: Perennial with setose stems to 0.8 m tall.
Leaves pubescent beneath. Flowers yellowish white.

Habitat: Rocky slopes.

Range: Connecticut; Missouri.

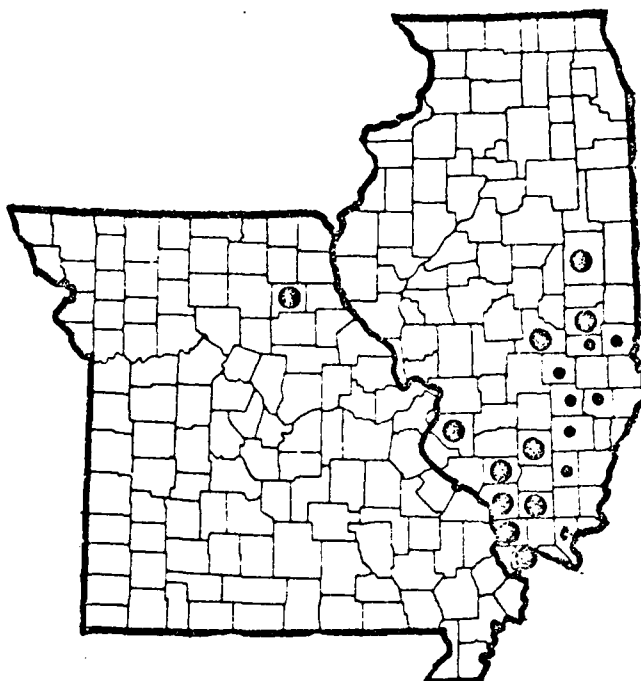
Notes: The Marie's County collection was made 2 1/2
miles southeast of Hayden on June 29, 1939, by J. A.
Steyermark. It is also known from Benton County.
This plant is unknown from Illinois.

SHELBY (MO).

Viburnum dentatum L. var. deamii (Rehd.) Fern.

Southern Arrow-wood

Classification: Missouri: Rare.



Description: Shrub to 3 m tall. Twigs and petioles glabrous. Cymes up to 11 cm across. Drupes blue-black.

Habitat: Low woods; wooded slopes.

Range: Pennsylvania to Tennessee and Missouri.

Notes: There are several stations for this plant near Shelbina in Shelby County. The first collection was made June 28, 1933, by E. J. Palmer & J. A. Steyermark 40845.

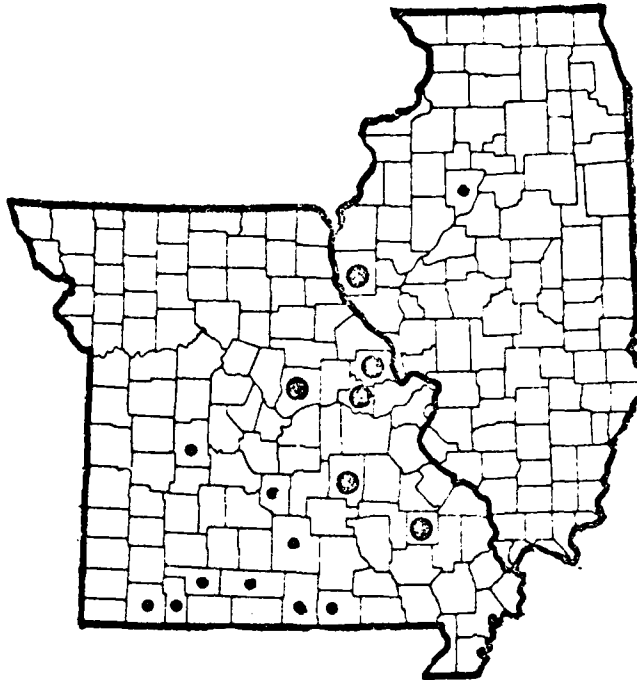
This plant is uncommon in southern Illinois.

ADAMS (ILL).

Viburnum molle Michx.

Arrow-wood

Classification: Illinois: Considered rare by this investigator.



Description: Shrub to 4 m tall. Leaves cordate, coarsely dentate. Cymes 5-8 cm broad. Drupes ellipsoid, up to 1 cm long.

Habitat: Rocky banks; wooded slopes.

Range: Indiana to Iowa, south to Oklahoma, Arkansas, and Kentucky.

Notes: The Adams County collection was made near Quincy on July 20, 1944, by R. Brinker 3599. It is also known from Peoria County.

This species is scattered in the Missouri Ozarks.

BOONE, DENT (MO).

Lonicera dioica L.

Red Honeysuckle

Classification: Missouri: Rare.



Description: Twining or ascending shrub. Leaves oblong or elliptic, the upper 1-4 pairs connate. Flowers greenish-yellow, 1.5-2.3 cm long.

Habitat: Rock ledges; rocky banks.

Range: Maine to Manitoba, south to Missouri and Georgia.

Notes: In Boone County, this species was collected at Columbia in May, 1902, by F. Daniels. In Dent County, it was collected at Montauk State Park on May 5, 1939, by J. A. Steyermark 22126.

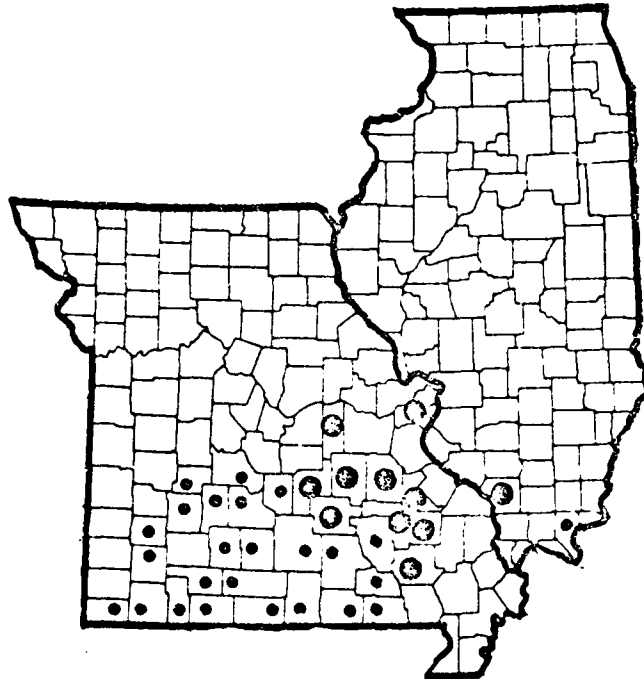
There are three localities in northern Illinois for this species.

JACKSON (ILL).

Lonicera flava Sims

Yellow Honeysuckle

Classification: Illinois: Considered rare by this investigator.



Description: Twining or ascending shrub. Leaves oblong or elliptic, the upper 1-4 pairs connate. Flowers orange-yellow, about 3 cm long.

Habitat: Rocky woods; sandstone cliffs.

Range: North Carolina to Oklahoma, south to Arkansas and Georgia.

Notes: The Jackson County collections are from Little Grand Canyon and Fountain Bluff. This species is also known from Pope County.

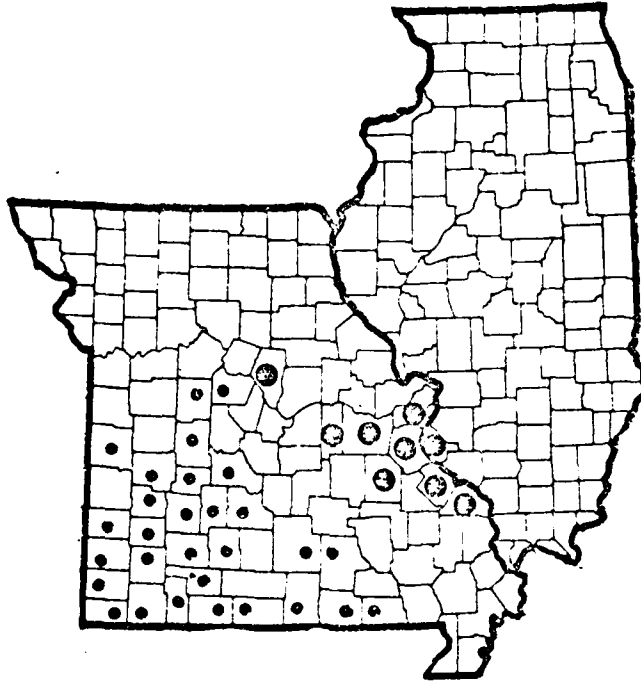
This species is scattered in the Missouri Ozarks.

MONROE (ILL).

Galium virgatum Nutt.

Dwarf Bedstraw

Classification: Illinois: Considered very rare by
this investigator.



Description: Slender annual. Leaves oblong, in whorls
of 4's, up to 1 cm long. Flower solitary, white.

Habitat: Limestone ledges.

Range: Tennessee to Oklahoma, south to Texas and
Louisiana.

Notes: The only Illinois station is south of Fults,
where it was first collected on June 16, 1950, by
R. A. Evers.

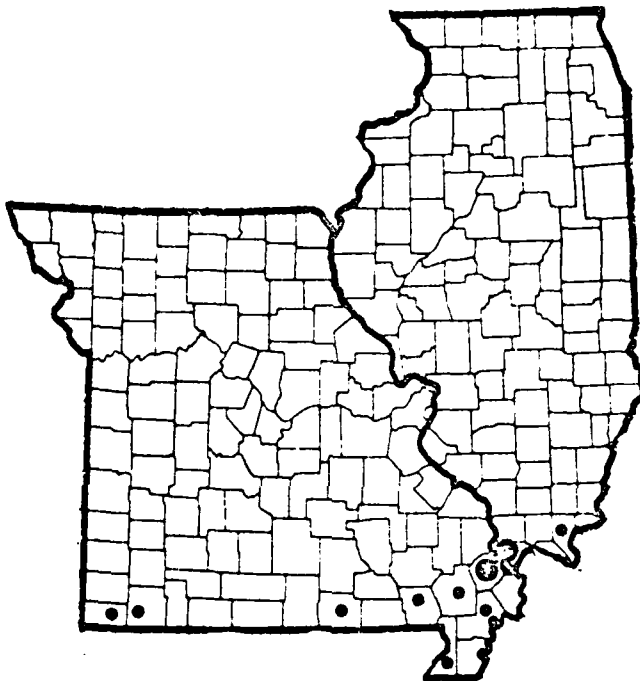
This species is widespread in the Missouri
Ozarks.

ALEXANDER (ILL).

Melothria pendula L.

Creeping Cucumber

Classification: Illinois: Considered rare by this investigator.



Description: Slender, climbing perennial. Leaves 5-angled. Flowers polygamous.

Habitat: Low, rocky woods.

Range: Virginia to Oklahoma, south to Texas and Florida; Mexico.

Notes: The Alexander County collection was made near Thebes on August 18, 1949, by H. M. Franklin. It is also known from Pope County.

This species is known from a few counties in extreme southern Missouri, including Scott.

MISSISSIPPI (MO).

Cayaponia grandifolia (Torr. & Gray) Small

Gourd

Classification: Missouri: Status Undetermined, but
considered rare by this
investigator.



Description: Tendrils forked. Leaves lobed, up to 20
cm wide. Fruit glabrous.

Habitat: Alluvial woods.

Range: Missouri south to Louisiana and Florida.

Notes: This species is also known from New Madrid and
Pemiscot counties.

It is unknown from Illinois.

MONTGOMERY (ILL).

Liatris ligulistylis (A. Nels.) K. Schum.

Blazing Star

Classification: Illinois: Considered rare by this investigator.



Description: Perennial to 0.6 m tall. Leaves ciliate. Inflorescence a raceme of up to 30 hemispherical, violet heads.

Habitat: Rocky woods.

Range: Minnesota to Alberta, south to New Mexico, Missouri, and Illinois.

Notes: This species is scattered in southern and central Missouri.

PULASKI (ILL).

Melanthera nivea (L.) Small

Melanthera

Classification: Illinois: Considered rare by this investigator.



Description: Perennial. Leaves opposite. Rays white.

Habitat: Floodplain woods.

Range: Illinois south to Louisiana and Georgia.

Notes: The Pulaski County collection came from near Olmsted by R. H. Mohlenbrock, G. Dillard, & S. Abney.

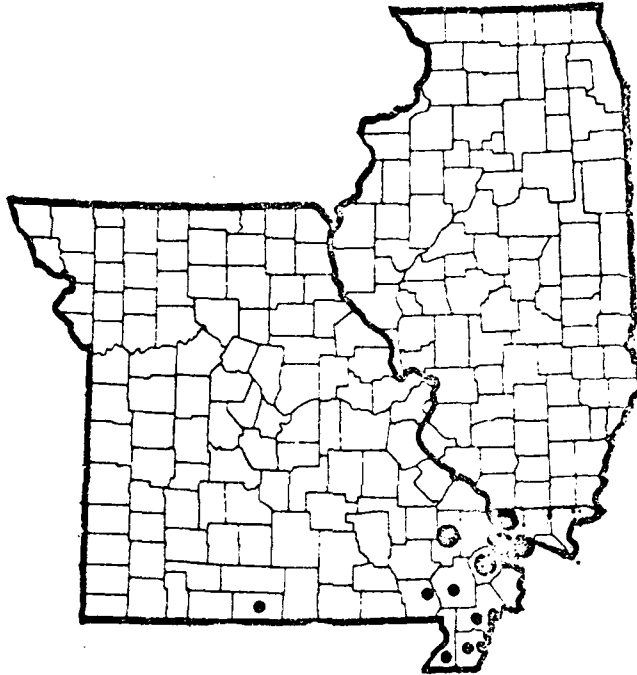
This species is unknown from Missouri.

ALEXANDER, PULASKI, UNION (ILL).

Eupatorium incarnatum Walt.

Pink Mist Flower

Classification: Illinois: Considered rare by this investigator.



Description: Slender perennial to 2 m tall. Leaves deltoid-ovate. Rays pink.

Habitat: Low woods; swamps.

Range: Virginia to Missouri, south to Arizona and Florida; Mexico.

Notes: The Alexander County collections were made at McClure and 2 miles west of Tamms. The Pulaski County collection was made at Mounds. The Union County collection came from the Pine Hills.

This species is restricted to the southeastern counties in Missouri.

SANGAMON (ILL).

Helianthus X doronicoides Lam.

Sunflower

Classification: Illinois: Considered very rare by
this investigator.



Description: Perennial to 1.5 m tall. Leaves oblong-ovate. Disk 1.5-1.8 cm broad.

Habitat: Woods.

Range: New Jersey; Indiana; Illinois.

Notes: This is a reputed hybrid between H. mollis Lam.
and H. giganteus L.

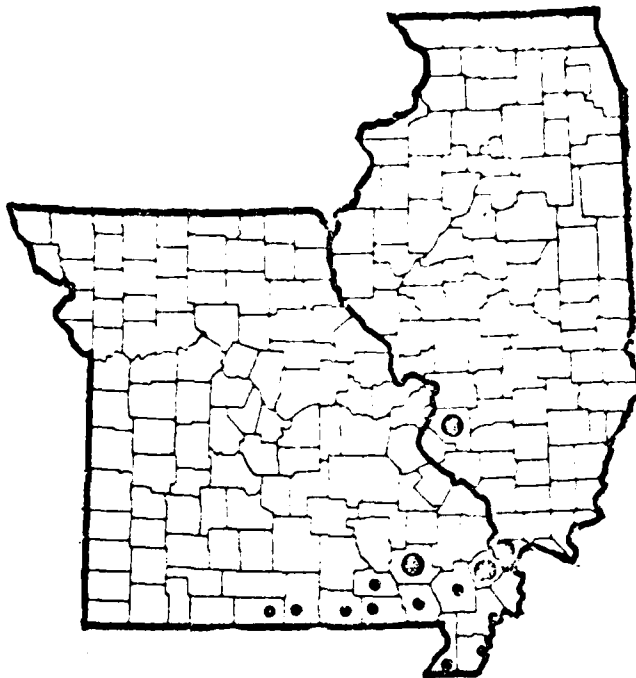
This hybrid is unknown from Missouri.

ALEXANDER, ST. CLAIR (ILL).

Helianthus silphioides Nutt.

Sunflower

Classification: Illinois: Considered rare by this investigator.



Description: Perennial with several stems. Leaves more or less suborbicular. Rays yellow. Disk red-purple.

Habitat: Woods.

Range: Indiana to Minnesota, south to Louisiana and Alabama.

Notes: The Alexander County collection was made at Cairo by O. Kuntze in 1874.

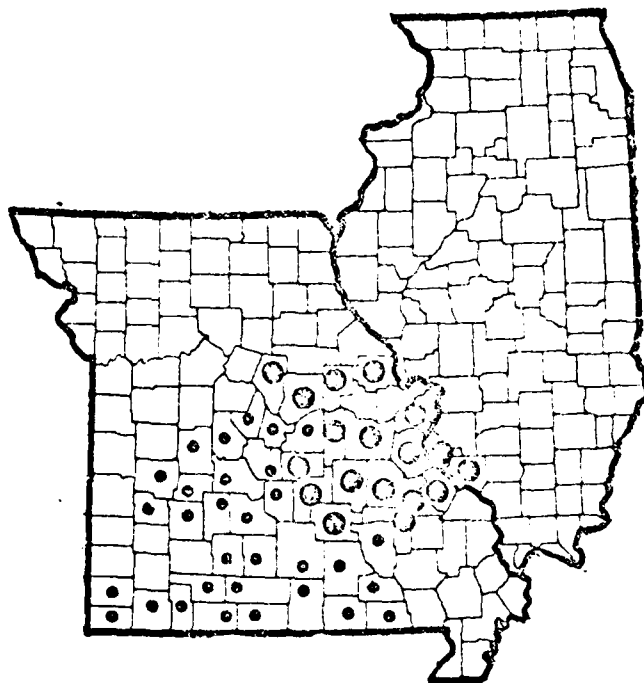
This species is known from several counties in southeastern Missouri.

MONROE, RANDOLPH (ILL).

Rudbeckia fulgida Ait. var. missouriensis (Engelm.) Cronq.

Missouri Orange Cone-flower

Classification: Illinois: Considered rare by this investigator.



Description: Perennial. Stems villous-hirsute. Rays 1.5-2.5 cm long.

Habitat: Hill prairies.

Range: Illinois to Missouri, south to Texas and Louisiana.

Notes: This species is known in Monroe County from near Waterloo and near Fults. It is known in Randolph County from near Prairie du Rocher.

This species is scattered throughout the Missouri Ozarks.

Steyermark (1963) calls this species R. missouriensis Engelm.

SHELBY (MO).

Echinacea angustifolia DC.

Narrow-leaved Cone-flower

Classification: Missouri: Endangered.



Description: Hirsute perennial to 0.5 m tall. Leaves lanceolate to linear-lanceolate. Rays 2.0-3.5 cm long, spreading, purple.

Habitat: Prairies.

Range: Minnesota to Saskatchewan, south to Texas and Missouri.

Notes: This species is unknown from Illinois.

ST. CLAIR (ILL).

ST. LOUIS (MO).

Bidens beckii Torr.

Water Marigold

Classification: Illinois: Considered very rare by
this investigator.

Missouri: Considered very rare and
probably extinct by this
investigator.



Description: Aquatic perennial. Submersed leaves finely
dissected. Heads yellow. Achenes nearly terete.

Habitat: Ponds.

Range: Quebec to Minnesota, south to Missouri, Ohio,
and New Jersey; Washington to Oregon.

Notes: The St. Clair County and St. Louis County col-
lections were made more than 100 years ago.

In Illinois, this species is also known from
Cook and Lake counties.

ALEXANDER (ILL).

SCOTT (MO).

Gaillardia lutea Greene

Gaillardia

Classification: Illinois: Considered very rare and probably extinct by this investigator.

Missouri: Endangered.



Description: Perennial to 1 m tall. Leaves oblong-lanceolate. Both disc- and ray-flowers yellow.

Habitat: Sandy soil.

Range: Illinois to Oklahoma, south to Texas and Florida.

Notes: The Illinois collection was made at Cairo in 1874.

The Scott County collection was made at Morley on October 8, 1893, by H. Eggert. There is also an 1894 collection from Dunklin County.

Mohlenbrock (1975) calls this species G. aestivalis (Walt.) Rock.

CHAMPAIGN (ILL).

RANDOLPH (MO).

Aster X amethystinus Nutt.

Amethyst Aster

Classification: Illinois: Considered rare by this investigator.

Missouri: Considered very rare by this investigator.



Description: Perennial to 1.5 m tall. Stems densely hairy. Leaves sessile, linear to oblong. Rays blue, 7-10 mm long.

Habitat: Prairies.

Range: Vermont to Nebraska, south to Missouri, Kentucky, and Pennsylvania.

Notes: The Champaign County collection was made between Lotus and Fisher on September 16, 1952, by H. E. Ahles 6818. It is also known in Illinois from Peoria County.

The Randolph County collection was made between Moberly and Cairo on October 10, 1934, by

Aster X amethystinus (Cont'd.)

J. A. Steyermark 16021.

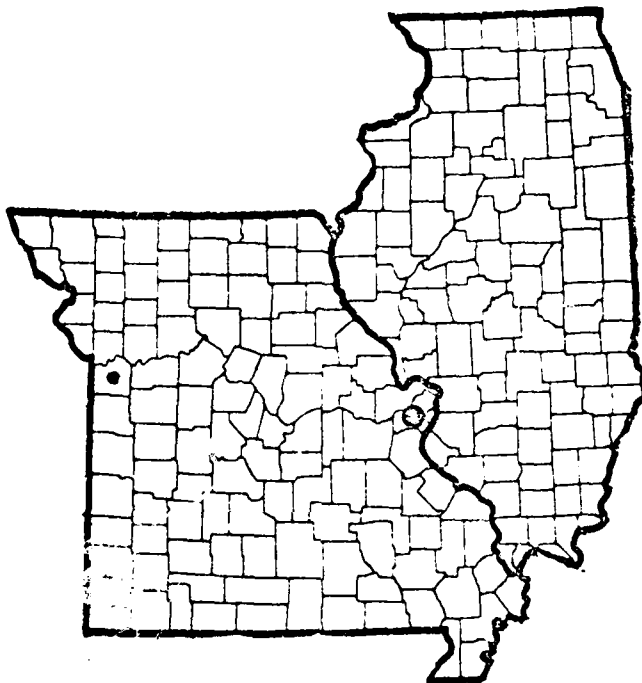
This is a reputed hybrid between A. ericoides L.
and A. novae-angliae L.

ST. LOUIS (MO).

Aster commutatus (Torr. & Gray) Gray

White Prairie Aster

Classification: Missouri: Rare.



Description: Perennial to 1.3 m tall. Heads white.
Involucres 5-8 mm high.

Habitat: Fields.

Range: Alberta to Manitoba, south to New Mexico and Missouri.

Notes: The St. Louis County collection was made at St. Louis on July 7, 1910, by Sherff 287. This species is also known from Jackson County, Missouri.

This species is unknown from Illinois.

SCOTT (ILL).

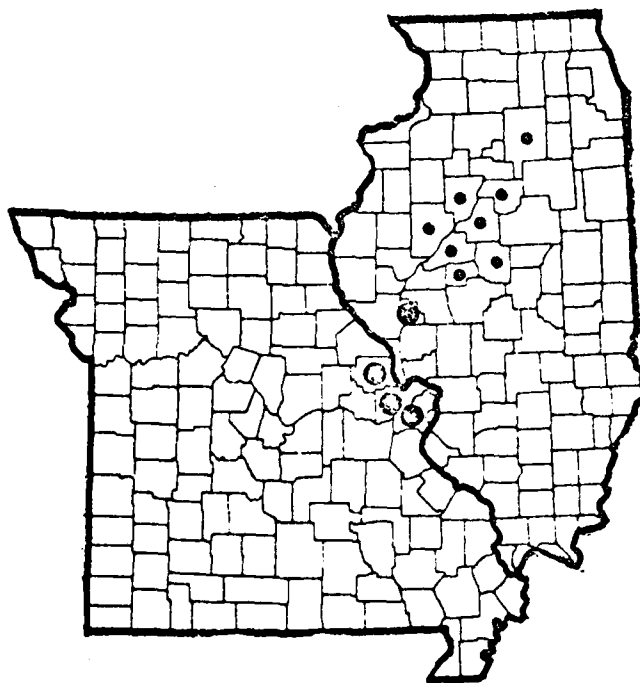
LINCOLN, ST. CHARLES, ST. LOUIS (MO).

Boltonia asteroides (L.) L'Her. var. decurrens (Torr. & Gray) Fern. & Grisc.

False Aster

Classification: Federal: Threatened.

Missouri: Considered rare by this investigator.



Description: Perennial to 1.5 m tall. Leaves linear to lanceolate, decurrent. Rays white, 1.0-1.8 cm long.

Habitat: Alluvial ground.

Range: Illinois; Missouri.

Notes: There are nine counties in Illinois where this species occurs.

ALEXANDER, UNION (ILL).

Heterotheca latifolia Buckl.

Camphorweed

Classification: Illinois: Considered rare by this investigator.



Description: Annual to nearly 1 m tall. Leaves oval or oblong. Rays yellow.

Habitat: Sandy soil.

Range: Delaware to Kansas, south to Arizona and Florida; Mexico.

Notes: The Union County collection was made near Reynolds-ville on October 12, 1950, by G. S. Winterringer 5451. The Alexander County collection was made near East Cape Girardeau by R. H. Mohlenbrock.

This species is known from several counties in Missouri, including Bollinger, Scott, and Wayne.

ST. LOUIS (MO).

Prenanthes racemosa Michx.

Rattlesnake Root

Classification: Missouri: Endangered.



Description: Perennial to 1.5 m tall. Stems glabrous and glaucous. Leaves sessile. Flowers pink or purplish.

Habitat: Low ground.

Range: Quebec to Alberta, south to Colorado, Missouri, and New York.

Notes: The St. Louis County collection was made at Kirkwood on June 24, 1886, by H. Eggert.
This species is occasional in Illinois.

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